

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

NOV 0 2 2016

#### <u>CERTIFIED MAIL 7009 1680 0000 7647 3422</u> RETURN RECEIPT REQUESTED

REPLY TO THE ATTENTION OF:

Ms. Margaret Pibuldhanapatana Health, Safety, and Environmental Leader Honeywell Burdick and Jackson 1953 South Harvey Street Muskegon, Michigan 49442

Re: Notice of Violation

Compliance Evaluation Inspection EPA ID Number: MID072575731

Dear Ms. Pibuldhanapatana:

On July 19, 2016, representatives of the U.S. Environmental Protection Agency and the Michigan Department of Environmental Quality inspected the Honeywell Burdick and Jackson ("HBJ") facility located in Muskegon, Michigan. As a large quantity generator of hazardous waste, HBJ is subject to the Resource Conservation and Recovery Act, 42 U.S.C. § 6901 et seq. (RCRA). The purpose of the inspection was to evaluate HBJ's compliance with certain provisions of RCRA and its implementing regulations related to the generation, treatment and storage of hazardous waste. A copy of the inspection report is enclosed for your reference.

Based on information provided by HBJ, on EPA's review of records pertaining to HBJ, and on the inspector's observations, EPA has determined that HBJ has unlawfully stored hazardous waste without a license or interim status as HBJ failed to comply with conditions for a license exemption under Mich. Admin. Code. r. 299.9306(1)-(3) [40 C.F.R. § 262.34(a)-(c)].

Many of the conditions for a RCRA license exemption are also independent requirements that apply to licensed and interim status hazardous waste management facilities that treat, store, or dispose of hazardous waste ("TSD requirements"). When a hazardous waste generator loses its license exemption due to a failure to comply with an exemption condition incorporated from Mich. Admin. Code. r. 299.9601(1)-(3) and 299.11003(1)(p) and (q), the generator: (a) becomes an operator of a hazardous waste storage facility; and (b) simultaneously violates the corresponding TSD requirement. The exemption conditions identified in the paragraphs below are also independent TSD requirements incorporated from Mich. Admin. Code. r. 299.9601(1)-(3) and 299.11003(1)(p) and (q). Accordingly, each failure of HBJ to comply with these conditions is also a violation of the corresponding requirement in in Mich. Admin. Code. r. 299.9601(1)-(3) and 299.11003(1)(p) and (q) [40 C.F.R. part 265] (if the facility should have fully complied with the requirements for interim status), or Mich. Admin. Code. r. 299.9601(1) and (2) and 299.11003(1)(m) – (o) [40 C.F.R. part 264] (should the facility have been licensed).

# STORAGE OF HAZARDOUS WASTE WITHOUT A LICENSE / INTERIM STATUS AND VIOLATIONS OF TSD REQUIREMENTS

#### 1. Hazardous waste Tank System Requirements - Subchapter J

A large quantity generator, in accordance with Mich. Admin. Code r. 299.9306(1)(a)(ii) [40 C.F.R. § 262.34(a)(1)(ii)], must comply with the following requirements in 40 C.F.R. part 265, subpart J, among other things, for tank systems used to store hazardous waste:

- Obtain a written assessment reviewed, and certified by a qualified professional engineer attesting that the tank system has sufficient structural integrity and is acceptable for storing and treating hazardous waste. See 40 C.F.R. § 265.192(a);
- Use an independent, qualified installation inspector or a qualified Professional Engineer to inspect the new tank system or component in use for (1) weld breaks; (2) punctures; (3) scrapes of protective coating; (4) cracks; (5) corrosion; (6) and other structural damage or inadequate construction or installation. See 40 C.F.R. § 265.192(b)];
- Test the new tanks and ancillary equipment (e.g., piping and pumps used to distribute hazardous waste from its point of generation to a storage or treatment tank) for tightness prior to being covered, enclosed, or placed in use. See 40 C.F.R § 265.192(d);
- Ensure that ancillary equipment is supported and protected against physical damage and excessive stress due to settlement, vibration, expansion or contraction. See 40 C.F.R. § 265.192(e); and,
- Obtain and keep on file at the facility written statements by those persons required to certify the design of the tank system and supervise the installation of the tank system in accordance with the requirements in 40 C.F.R. § 265.192(b) (f). See 40 C.F.R. § 265.192(g).

At the time of the inspection, a P.E.-certified assessment was available for review for hazardous waste tank T-16. An installation assessment for this tank was not available for review. Also, uncertified integrity assessments were available for the 25-gallon tanks in BR-1, 2, and 3. No integrity assessment was available for the 25-gallon tank located in the Now Pack station. None of the 25-gallon tanks had installation assessments.

#### 2. Air Emission Standards for Tanks – Subpart CC

In accordance with Mich. Admin. Code r. 299.9306(1)(a)(i); 40 C.F.R. part 265, subpart CC [40 C.F.R. §§ 262.34(a)(1)(ii); 265.1085(c)(1)], a large quantity generator who uses level 1 controls on a tank system to store hazardous waste with an average volatile organic concentration of at least 500 parts per million by weight, shall prepare and maintain a record of the maximum organic vapor pressure (MOVP) of the waste.

At the time of the inspection, a record of the MOVP of the hazardous waste managed in the waste tank system was not available for review.

#### 3. Contingency Plan Requirements

A large quantity generator, in accordance with Mich. Admin. Code r. 299.9306(1)(d); 40 C.F.R. part 265, subpart D [40 C.F.R. §§ 262.34(a)(4) and 265.52(c)], must provide a description of the arrangements agreed to by local police departments, fire departments, hospitals, contractors and state and local emergency response teams to coordinate emergency services in a facility contingency plan:

At the time of the inspection, the facility contingency plan did not include a description of arrangements made with emergency responders.

#### 4. Land Disposal Restriction Notice

A large quantity generator who determines that its generated waste does not meet treatment standards for disposal must provide to the treatment or storage facility receiving the waste a notice which includes, among other things, the applicable wastewater/nonwastewater category as described in 40 C.F.R. § 268.2(d) and (f). See Mich. Admin. Code r. 299.9306(1)(d); 40 C.F.R. part 268 [40 C.F.R. §§ 262.34(a)(4); 268.7(a)(2)].

At the time of the inspection, a land disposal restriction notice associated with manifest 015704512 (dated 4-25-16) indicated that a waste was classified as "wastewater" though it also noted the total organic carbon content was greater than 1%. A second land disposal restriction notice associated with manifest 014805687 (dated 1-15-16) indicated that three of four organic wastes were classified as "wastewater." No indication was made for the fourth waste.

Summary of license exemption requirements: By failing to comply with the conditions for a license exemption, above, HBJ became an operator of a hazardous waste storage facility, and was required to obtain a Michigan hazardous waste storage license. HBJ failed to apply for such a license. HBJ's failure to apply for and obtain a hazardous waste storage license violated the requirements of Mich. Admin. Code. r. 299.9502(1), 299.9508 and 299.9510 [40 C.F.R. §§ 270.1(c), and 270.10(a) and (d)]. Failure to comply with a license exemption condition incorporated from Mich. Admin. Code. r. 299.9601(1)-(3) and 299.11003(1)(p) and (q) is also an independent violation of the corresponding TSD requirement..

#### **CONCLUSION**

At this time, EPA is not requiring HBJ to apply for a Michigan hazardous waste storage license so long as it immediately establishes compliance with each of the requirements for a license exemption outlined in the paragraphs, above.

According to Section 3008(a) of RCRA, EPA may issue an order assessing a civil penalty for any past or current violation, requiring compliance immediately or within a specified time period, or both. Although this letter is not such an order or a request for information under Section 3007 of RCRA, 42 U.S.C. § 6927, we request that you submit a response in writing to us no later than 30 days after receipt of this letter documenting the actions, if any, which you have taken to establish compliance with all requirements listed above. You should submit your response to Brenda Whitney, U.S. EPA, Region 5, 77 West Jackson Boulevard, LR-8J, Chicago, Illinois 60604.

If you have any questions regarding this letter, please contact Ms. Whitney, of my staff, at 312-353-4796 or at whitney.brenda@epa.gov.

Sincerely,

Gary N. Victorine, Chief

RCKA Branch

Enclosure

cc: Wade O'Boyle, MDEQ (oboylew@michgan.gov)

Lonnie Lee, MDEQ (<u>Leel@michigan.gov</u>)
John Craig, MDEQ (<u>craigj@michigan.gov</u>)
Steven Sliver, MDEQ (<u>slivers@michigan.gov</u>)

### United States Environmental Protection Agency Region 5 77 West Jackson Boulevard Chicago, Illinois 60604

#### **Compliance Evaluation Inspection Report**

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July 19, 2016

**Facility Name:** 

Honeywell Burdick and Jackson

Facility Address:

1953 South Harvey Street Muskegon, Michigan 49442

**EPA RCRA ID Number:** 

MID072575731

**Generator Status:** 

Large Quantity Generator

**Facility Contact:** 

Margaret Pibuldhanapatana

Health, Safety, and Environmental Leader

U.S. EPA RCRA Inspector:

Brenda Whitney - Environmental Engineer

Land and Chemicals Division

Resource Conservation and Recovery Act (RCRA) Branch

Compliance Section 2

Prepared By:

Brenda Whitney – Environmental Engineer

Date

Approved By:

Julie Morris - Chief, Compliance Section 2

Date

#### **Purpose of Inspection**

I conducted an unannounced Compliance Evaluation Inspection (CEI or "Inspection") of the Honeywell Jackson and Burdick facility ("Honeywell" or "Facility") located in Muskegon, Michigan, on July 19, 2016. This CEI was an evaluation of Honeywell's compliance with the RCRA hazardous waste regulations codified in the Michigan Administrative Code and the Code of Federal Regulations. The Facility has notified as a large quantity generator of hazardous waste generating more than 1,000 kilograms of hazardous waste per month. Wade O'Boyle of the Michigan Department of Environmental Quality participated in this CEI.

#### **Participants**

Margaret Pibuldhanapatana	Health, Safety, and Environmental Manager	Honeywell
Robert Brenton	PMT Environmental COE Leader	Honeywell
John Hamann	Health, Safety, and Environmental Specialist	Honeywell
Wade O'Boyle	Hazardous Waste Quality Analyst	MDEQ
Brenda Whitney	Environmental Engineer	U.S. EPA

#### Introduction

Upon arrival at Honeywell at 10 a.m., EST, Wade and I signed in at the front desk and I presented my credentials. The front desk attendant provided us with visitor badges and contacted Ms. Pibuldhanapatana who escorted us to her office for an introductory meeting. Mr. Brenton joined us shortly thereafter. I delineated the purpose and logistics of the CEI to the Honeywell representatives and stated that I would be taking photographs during the CEI as needed. I was told that a monitor would be used to determine if the atmosphere in the plant was safe for camera use. I provided the following compliance assistance documents; *Michigan Retired Engineers Technical Assistance Program (RETAP)* sheet (MDEQ brochure); P2 Technical Assistance Contacts; and U.S. EPA Small Business Resources. As we discussed Honeywell's manufacturing operations focusing on waste generation sources and management methods, we also discussed the procedures EPA uses for controlling confidential business information. We then departed on a walking tour of the facility. Mr. O'Boyle and I left the Facility after the tour and returned the following day at 8 a.m., EST, to review records. Upon completion of the CEI, I held a closing conference with Honeywell representatives.

#### Site Description

The following information about Honeywell is based on the personal observations of the EPA inspector and on representations made during the inspection by the Facility personnel identified above or within the text unless otherwise noted.

#### Facility Background Information:

- Honeywell Corporation purchased this Facility from Burdick and Jackson in 1959.
- The site is 19 acres in size.
- The Facility has 90,000ft<sup>2</sup> under roof.
- 75-90 employees are employed at this Facility and work 24 hours a day in three shifts, five days a week.

#### **Process Information:**

- Honeywell purifies technical-grade solvents into high-grade solvents for use in industry including the laboratory, pharmaceutical and biomedical sectors.
- The process includes filtration or adsorption, blending, and distillation.
- Honeywell runs ten distillation units, 22 receiver tanks, seven reactor vessels, two blend tanks and four 8-inch columns.
- All distillation units are under 10,000 gallons in size.
- There are five packaging and four bottling rooms.

#### Raw materials:

- Acids, bases and ignitable liquids.
- Raw materials are stored mainly in 17 tanks (T11-T15 and T17-T28). Intermediate product is stored in two tanks (T29 and T30).
- Finished products are packaged in 80 different types of containers.

#### Waste Generation and Management

- Vessel clean-outs generate the bulk of the hazardous waste.
- Batches that do not meet specification will also be discarded.
- Waste generated from the bottling rooms is collected in a day tank in or near that room. That tank is then emptied into a 55-gallon drum, which is moved to the hazardous waste staging area. The waste is vacuumed out of the drum and into the hazardous waste storage tank (T-16). The piping between the staging area and T-16 is welded.
- The following categories of materials are generated from the distillation process.
  - o Still bottoms the residuals that are left behind after distillation are managed as hazardous waste.
  - Overheads the light materials pulled off of the top of the distillation process are collected and can be continued for use as a raw material without being pulled from the distillation unit. Overheads may be refluxed in the process as needed. The overheads vessel itself provides stabilized pressure for the system and is the injection point for the nitrogen blanket. This vessel is not managed as a hazardous waste tank for these reasons. Waste determinations are made when the material is pulled from the overheads vessel.
  - o Forerun and residues ("FR") intermediate products that are not managed as waste, but are to be either sold or to be further purified in-house.
- Incompatible waste that cannot be mixed in T-16 is kept in drums and shipped off-site.
- Technical grade acetone is used for cleaning of the vessels (100% before use). Batch procedures dictate the cleaning schedule.
- The Facility is plumbed to a sump and diversion pit. Honeywell has a permit with the Muskegon POTW. Before the pit is emptied to the POTW, the water is tested for pH and organics. Wastewater generated from the process lines includes non-contact cooling water from cooling jackets and wash down from reactors.
- Rags are generated from cleaning and are managed as hazardous waste. Rags are not laundered.
- Vacuum pump oil is managed as hazardous waste. The oil ring in the pump may become contaminated with organic vapors that escape from the distillation system. The efficiency of the pump is effected by the change in density of the oil due to the organics. The oil is changed out at that time.
- Universal waste lamps, batteries, and electronics are collected for recycling.
- Used oil may be generated through 3<sup>rd</sup> party maintenance, but it is not stored at this site.

#### Corrective Action

• Honeywell is in the process of coordinating with the State of Michigan in order to acquire an NFA. In order for the State to sign off on the NFA, a deed restriction on the property has to be in place. Honeywell stated that no new solid waste management units have been identified on the property.

#### Site Tour

- Bottling Room 1 (BR-1): Line flush and spills from this bottling line collects in a 25-gallon tank underneath the counter (See Appendix A: Photographs 1 and 2). Two incoming lines from the funnel area and from the scale combine into one line that feeds the tank. A second line vents to the atmosphere. A third line is an emergency rupture line, and the fourth line is a drain line from which the tank is pumped out into a 55-gallon drum in the adjoining room. A red ID tag for their LDAR inspections was on the valves. The tank was labeled as "Hazardous Waste." The profile number for the waste was used instead of the waste numbers. The long list of waste numbers is applied to the label prior to shipment of the waste. An example of a finished label was provided after the inspection.
- Bottling Room 2 (BR-2): The same system was set up for BR-2 as in BR-1 except this tank was located in Production Room 3 adjacent to BR-2. The piping was the same. Red ID tags for their LDAR program were in place. The tank was labeled as "Hazardous Waste" and the profile number was used in lieu of the waste numbers. This tank was marked with a start date of accumulation from 5-11-16.
- Production Room 3 (PR-3): A 55-gallon "WCD" drum of waste in this area near distillation unit ("Still") 8 was marked as "Hazardous Waste." The profile number was on the drum. This container was to be pumped out into T-16. This drum was not marked with a start date of accumulation. While in this PR-3, Mr. Brenton pointed out the overheads vessel for the still and explained how it was part of the unit itself and served as an integral component in the production process. Near this still was a 3-gallon bucket that was labeled as "Hazardous Waste" and closed.
- Production Room 2 (PR-2): A 55-gallon drum in this room was labeled as "Hazardous Waste" with the profile number and served to collect waste from Still 7 which was in this room.
- Production Room 1 (PR-1): A 55-gallon drum in this room was labeled as "Hazardous Waste" with the profile number and was used to collect wastes from Stills 10, 11, and 5 which were all in this area.
- Vacuum Pump: In a room outside of PR-1, I observed the vacuum pump. A 55-gallon drum is stationed by the pump for the waste oil. The drum was labeled as "Hazardous Waste" and marked with the profile number.
- Contractor Paint Room: This storage room was positioned across from the vacuum pump room. This room contained contractor raw materials. No hazardous waste was observed.
- Hazardous Waste Storage Area: The drum storage area is segregated between acidic wastes and basic wastes (See Appendix A: Photograph 3). Containers are lined up with aisle space on a concrete pad that is designed to collect spills. The pad appeared to be in good condition. The containers were marked as "Hazardous Waste" as applicable and marked with start dates of accumulation. Two drums were observed with start dates of 5/3/2016. These drums were noted as being due for removal from the site on the inspection sheets and on the white board in the storage areas.

- Hazardous Waste Tank T-16: This 10,000-gallon tank is located in an outdoor tank farm. The secondary containment was segregated from the raw material tanks. The concrete appeared in good condition. The tank was also in good condition and was labeled as "Hazardous Waste." The piping leading to the tank as well as the equipment at the top of the tank appeared in good condition (See Appendix A: Photographs 4 and 5). The Subpart BB tags for the equipment associated with this tank appeared to be in the proper places. Only one valve is on the pipe leading to the tank because the line is welded. The other tags were placed on the vent line and the pump. I observed the tanker truck lines which remove the waste from this tank. What appeared to be a stray open-ended line from this tanker pipe was a release line for the nitrogen that is used to push any waste remaining in the tanker feed line back into T16 after the tanker is full. Only excess nitrogen is released through this line (See Appendix A: Photograph 6).
- Process Water Sump and Diversion Pit: The sump holds approximately 10,000 gallons of water. This cylindrical sump empties into the rectangular diversion pit (24,000 gallons) after the water is tested for certain parameters. The diversion pit is pumped out to the POTW regularly.
- Tanker Pads and control buildings: No hazardous waste was observed in these areas.
- Warehouses and Pallet Shed: We walked through each warehouse (areas 17-24) on the property. No waste was observed in any of the warehouses with the exception of the universal waste rack just north of area 17. Each container of universal waste was closed and labeled as "Universal Waste" with the corresponding waste type. The last shipment date noted in this area was within one year of the inspection (3/30/16).
- Maintenance shed: This pole barn on the northwest side of the property contained maintenance materials and equipment only. This building is not included on the site map. No hazardous waste was observed in this building.
- Bladder Bag Emptying Station: This area is where bladder bags, which are plastic inserts in a particular container are removed. The waste in these bags drains into a tank beneath the counter. This tank was not observed during the inspection. A 55-gallon drum in the area was observed. This drum was marked as "Hazardous Waste" and with the profile number. A start date was not observed. I understood this drum to be used as a consolidation container for the wastes that accumulate in the tank under the counter.
- Production Room 5 (PR 5): One 55-gallon drum of waste generated in this area was labeled as "Hazardous Waste" and marked with the profile number. Two 3-gallon containers were by the metering station in PR 5. These containers were labeled as "Hazardous Waste" and were closed. They were also marked with profile numbers. One additional 55-gallon drum in the area was reserved for chlorinated solvents only. This drum was marked as "Hazardous Waste" and with the profile number.
- Production Room 4 (PR 4): Still 12 is in this area. Pot additives are added mostly in this unit.

  One 55-gallon drum was labeled with the words "Hazardous Waste" and profile numbers and one 3-gallon bucket was also labeled as such.

- HPB 2: This is blending room that is not classified as a production room. I observed two 55-gallon drums of waste next to one another that collect wastes which are generated from one blending unit at different times (See Appendix A: Photograph 7). One drum is for an acidic waste stream. The second drum is for a basic waste stream. The physical point of generation is the same for both containers. According to Mr. Brenton, the temporal point of generation is different, as the waste is generated from alternating basic and acidic batches. Honeywell manages both of these containers as satellites. Both drums were labeled as "Hazardous Waste" and marked with profile numbers.
- HPB 1: This is another blending room that is not classified as a production room. I observed one 55-gallon drum of "Hazardous Waste" marked with a profile number, and a second drum from a different process collecting waste from a knock-out pot that was similarly marked.
- Bottling Room 3 (BR-3): The waste tank under the counter was labeled as "Hazardous Waste" and marked with the profile number and a start date of 7-18-16. The valves were tagged with subpart BB identification tags. A 55-gallon drum in this area for the line flush was labeled as "Hazardous Waste" and marked with the profile number.
- Bottling Room 4 (BR-4): Technical and Electrical grade solvents are bottled in this room. I was unable to enter this room because it was in production. I did observe from the window that a 5-gallon bucket in the room was marked with the words "Hazardous Waste."
- Instrument Lab: Waste is collected from the instruments in a one quart container (solids) or one gallon container (liquids). Each gallon container was closed with an "EcoFunnel" or with a lid (solids). Each container was labeled as "Hazardous Waste" (See Appendix A: Photograph 8).
- Wet Lab: One 90-day 55-gallon drum was in this laboratory. This drum was labeled as "Hazardous Waste" and marked with a 7-11-16 start date of accumulation and profile number. The waste that gets place in this drum is generated in both the wet lab and the instrument lab. A collect of bottles of waste was on the lab bench next to the drum (See Appendix A: Photograph 9). According to Mr. Brenton, the sample bottles of product could still be used somehow or resampled before it is dumped in the drum. He said that material is tracked up until the moment it is dumped.
- Trace Lab: More sensitive instrumentation is kept in this lab. Similar to the instrument lab, quartsized and gallon-sized drums are used to collect waste. Each container was closed, labeled as "Hazardous Waste" and marked with a profile number.

End of Tour.

#### Records and Emergency Preparedness Review

<u>Preparedness and Prevention</u>: The Facility is equipped with internal communications and alarm systems. Phones are available for external communications to summon emergency assistance. In addition to a plant-wide fire suppression system that consists of water or water-based foams, portable fire extinguishers and spill control equipment are located

throughout the Facility and near the 90-day hazardous waste storage area. Emergency equipment is tested and maintained according to a schedule. Arrangements with local emergency response authorities have been made.

#### Contingency Plan:

- The list of emergency coordinators was current and included requisite information.
- The plan includes emergency evacuation information.
- The emergency equipment lists included descriptions, capabilities, and locations.
- A list of contact information for local emergency responders, but does not include a description of arrangements made with those responders.
- The plan has been submitted to emergency responders.
- <u>Training</u>: A generic hazardous waste management training is provided to employees are in the health, safety and environmental department sign manifests, act as emergency coordinators and conduct weekly inspections. Operators are trained in a more hands-on training that is specific to the hazards expected at this facility. This training is provided through an outside contractor. The training was last provided in September, 2015.
- Manifests: Three years of hazardous waste manifests were available for review. Land disposal restriction (LDR) forms were also available for review. Of note, the LDR form for manifest 015704512 (dated 4/25/16) indicated that a waste was classified as a wastewater with total organic carbon greater than 1%. A second LDR associated with manifest 014805687 (1/15/16) marked wastewaters for three of four organic wastes. No indication was made for the fourth waste.
- <u>Inspections</u>: Inspections of hazardous waste storage areas (drum storage pad, universal waste area, and the 25-gallon tanks in bottling rooms) are conducted five days a week for containers and 7 days a week for T-16. Weekly inspections are conducted for satellite accumulation containers in the five production rooms, HPB rooms, and labs. The 90-day drum in the wet lab is also on a weekly schedule.
- <u>Waste Determinations</u>: Waste profiles were available for review. Most waste determinations are made using generator knowledge because the wastes are generated according to batch recipes thereby limiting variability and unknowns in any typical waste stream.
- Tank Requirements: T-16 was installed in 1993 and required an integrity assessment and separate installation assessment. A P.E.-certified tank assessment which discussed the design standards and hazardous characteristic compatibilities for T-16 was available for review. An installation assessment for this tank was not on file. Secondary containment for this tank appeared to be in good condition and was deemed to be adequate in size in the assessment. Integrity assessments that were not certified by a P.E. were available for the 25-gallon tanks in BR-1, 2, and 3. No records were available for the tank associated with the bladder bag emptying station (Now Pack). Installation assessments were not available for review for any of the four 25-gallon tanks. The tanks which I observed were in stainless steel troughs for containment which appeared to be in good condition. No leaks were observed.

Air Emissions Requirements: Honeywell is subject to Subparts BB and CC of 40 CFR 265. Even though Honeywell has distillation units, these units do not manage hazardous waste and therefore, Subpart AA does not apply. The Facility conducts LDAR monitoring quarterly and have not changed to an alternate schedule for any component. The associate who conducts the monitoring uses a TVA-1000. Calibration forms are included in the records. The LDAR checklist identifies pressure relief devices as flanges. No leaks have been identified. Annual inspections are conducted in accordance with Subpart CC, however, a maximum organic vapor pressure (MOVP) calculation was not available for review

#### **Closing Conference**

The following items were discussed with Honeywell personnel at the close of the inspection:

- Confidential Business Information (CBI) It was determined that I did not collect information or photographs that were to be managed as CBI.
- Forerun and residue (F&R clarification)
- Tank assessments
- LDR requirements
- Overheads clarification
- HBR storage containers status
- Wet lab container storage status
- Use of profile numbers on labels instead of waste numbers

#### List of Appendices

- Appendix A: Photograph Log
- Appendix B: Checklists
- Appendix C: Documents Received from Facility During Inspection

# Appendix A

## Photograph Log

Inspection Date: July 19-20, 2016

Facility Name and ID Number: Honeywell Burdick & Jackson EPA ID: MID072575731

Inspector and Photographer:
Brenda Whitney
Compliance Section 2
RCRA Branch
Land and Chemicals Division

Camera Used: Olympus Stylus 600 Serial Number: A47525904

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Taken at 11:19 a.m. CT

The hazardous waste tank in BR-1 is approximately 25-gallons in size, was labeled as "Hazardous Waste," marked with a start date of 7-7-16 and tagged for LDAR inspections.



### Photograph 2

Taken at 11:20 a.m. CT See description under Photograph 1.



Taken at 12:25 p.m. CT

The hazardous waste storage area for containers was segregated between basic and acidic wastes. The concrete floor of the area provided containment for the containers and was marked for aisle space. The labels for each of the containers in the area were visible for inspection.



### Photograph 4

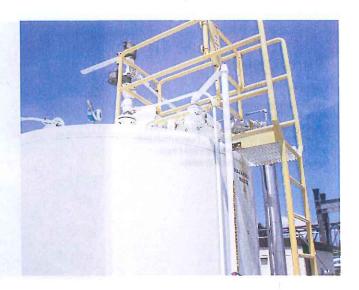
Taken at 12:28 p.m. CT

The overhead piping leading to T16 is welded and is inspected every day as part of the T-16 inspection.



Taken at 12:34 p.m. CT

Tank 16 was marked as "Hazardous Waste."
The equipment associated with the tank was in good condition. LDAR tags identifying equipment subject to Subpart BB appeared to be in appropriate places (valves, pumps, and pressure relief devices (on the flange)).



### Photograph 6

Taken at 12:45 p.m. CT

This pipe system is used for loading tanker trucks with waste from T-16. The pipe identified in the blue oval (added for emphasis) is an open-ended pipe on the line that is used for purging excess nitrogen gas from the line after the tanker has filled.



Taken at 1:50 p.m. CT

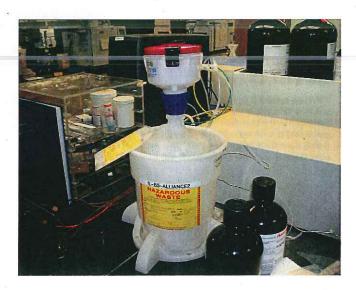
Two 55-gallon drums in HBR 2 were colocated and were being managed as satellite accumulation containers. The drums collect waste from the same piece of equipment but at different times. One waste held basic waste, the other held acidic waste.



### Photograph 8

Taken at 2:11 p.m. CT

Containers in the laboratory were each labeled and closed. The funnel in this photograph allows for a line to dispense waste into the container at any times without having to open the container.



Taken at 2:19 p.m. CT

Bottles were being staged for dumping into a 55-gallon drum in the wet laboratory. These bottles were closed and labeled but were collected from the instrument and wet labs. Mr. Brenton stated that these materials may still be used or resampled before being discarded.



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# Appendix B

### Checklists

**Inspection Date:** July 19-20, 2016

Facility Name and ID Number: Honeywell Burdick & Jackson EPA ID: MID072575731

Inspector:
Brenda Whitney
Compliance Section 2
RCRA Branch
Land and Chemicals Division

- . Department of Environmental Quality
FULLY REGULATED GENERATOR (FRG) INSPECTION FORM

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HAZARDOUS WASTE AND WASTE #	SOURCE	п	JVV MOC	20
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			1	
			1	
With the control of t	NCE REQUIRED IN ALL AREAS ATION (Rule 302: 40 CFR 262.11		Name of the last	
N  = Not inspected; N/A = Not applicable)	ACC 000 443	262A	YES I	NI N/A
Determined if waste streams are hazardous waste? (Rule 302: 40		262D	130	NI N/A
a) copy of waste evaluation on-site 3 years? (Rule 307(1): 40 CF		262A	1 1	NIN/
<ul> <li>b) re-evaluated waste when changes in materials or process? (F</li> <li>Did generator have written waste analysis plan if treating wastes</li> </ul>		262C		NINA
	MBER (Rule 303: 40 CFR 262.12)		2.5	- 6
B. Has the generator obtained an identification number? (Rule 303:		262A	N.	_ NI N/
MANIEEST PEOLUREM	IENTS (Rule 304: 40 CFR 262.20)			
4. Copies of the manifest readily available for review & inspection?		FSS	IX	NI N/
5. Manifests kept for the past 3 years? (Rule 307(3): 40 CFR 262.20		262D	06	_ NLN#
5. Manifests, prepared by the generator according to instructions in				
a) manifest document number (Rule 304(1)(b): 40 CFR 262.20(4	Market Market Co.	262B	LX _	NI N/
b) generator's name, address, phone & ID # (Rule 304(1)(b): 40		262B	<b>M</b>	NI NI
c) name & ID # of the transporter. (Rule 304(1)(b): 40 CFR 262.	20(a)(i)),	262B	1	NI N/.
d) name, address & ID # of TSDF. (Rule 304(1)(b): 40 CFR 262	.20(a)(i)).	262B	24_	_ NI N/
e) DOT description of waste(s). (Rule 304(1)(b): 40 CFR 262.20	0(a)(l)),	262B	2	_ NI N/
f) quantity of waste, type & # of containers. (Rule 304(1)(b): 40 0	CFR 262.20(a)(i)),	262B	124_	NI N/
g) hazardous waste number of the wastes. (Rule 304(1)(b): 40 0	CFR 262.20(a)(i)),	262B	2	_ NI N/
h) generator signature, initial transporter & date of acceptance.	(Rule 304(1)(b): 40 CFR 262.20(a)(i)),	262B	₩_	NI N/
7. NOT APPLICABLE				
<ol> <li>For out-of-state manifests, if not submitted by designated facility, requested by Director? (Rule 304(2)(c))</li> </ol>	generator submitted copy of 3rd signature manifest as	262B	( )	NI NI
9. Is the transporter used properly registered &/or permitted under A	Act 138, Sec. 2 (3)? (Rule 304(1)(c))	262B	Dd .	NI N/
NOTE: For shipments of hazardous waste solely by water or rail ship	The artists are a minimum and a management of the		200	
ACCOUNT AND A MANAGEMENT IN THE REAL HOUSE AND ANALYSIS AND A STATE OF THE CONTRACT OF THE CON	100 mg - 100		-	
<ol> <li>Using manifest that has expired? (Rule 304(1)(a): 40 CFR 262.2</li> </ol>	20)	262B	[	M NI N/
11. Reportable exceptions (Rule 308(3): 40 CFR 262.42)(a).	The state of the s			NA
<ul> <li>a) number of manifests generator HASN'T receive signed copy</li> </ul>		-	*	1
<ul> <li>b) number of manifests generator HASN'T submitted exception</li> <li>12. Facility has written program to reduce volume/toxicity/recycle was</li> </ul>		2005		A 11 A 11
		262B		NI N/

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LAND DISPOSAL RESTRICTION REQUIREMENTS WASTE ANALYSIS AND RECORDKEEPING (Rule 311(1): 40 CFR 268.7))		YES	NO
14. Did the generator determine if the waste is restricted from land disposal? (Rule 311(1): 40 CFR 268.7(a)(1))			
a) all listed waste	268A	<u> </u>	NI N/A
b) all characteristic wastes?	268A	X-	NI N/A
NOTE: If waste has both listed & characteristic waste codes, the treatment standard for the listed waste is sufficient if the standards for the listed waste includes a standard for the constituent that caused the waste to exhibit the character for D001 and D002. (40 CFR 268.9(b))	treatment istic, exce	ipl	
<ol> <li>If restricted waste exceeds treatment standards or prohibitions did notice go w/ initial shipment? (Rule 311(1):40 CFR 268.7(a)(2))</li> </ol>	268A	LX_	NI N/A
OR	initial		-
<ol> <li>If restricted waste does not exceed treatment standards or prohibitions did a notice and certification statement go with shipment? (Rule 311(1): (40 CFR 268.7(a)(3))</li> </ol>	268A	<b>U</b> _	_ NI WA
OR			
<ol> <li>If waste has exemption from prohibition on the type of land disposal method utilized for the waste, did a notice go with initial shipment? (Rule 311(1): 40 CFR 268.7(a)(4))</li> </ol> OR	268A	ப_	NI WA
If facility choose alternative treatment standard for lab pack that contains none of the waste in appendix IV, did a notice & certification go with initial shipment? (Rule 311(1): 40 CFR 268.7(a)(9))	268A	<u></u>	NI WA
9. Did the notice include: (Rule 311(1): 40 CFR 268.7(a)(1) or 268.7(a)(2) or 268.7(a)(3)		-,	
a) EPA hazardous waste #?	268A	×_	NI N/A
b) if wastewater or non-wastewater as defined in 268.2(d&f)?	268A	LX	NI N/A
c) subcategory of the waste (such as D003 reactive cyanide) if applicable?	268A	DX)_	NI N/A
d) manifest number associated with the shipment?	268A	24	NI N/A
e) waste analysis data, where available?	268A		NNA
<ol> <li>waste constituents that the treater will monitor, if monitoring will not include all regulated constituents, for F001 - F005, F039, D001, D002, D012-00439 (treatment standards for hazardous weste in table in 268.40 for the waste code under regulated constituents)</li> </ol>	268A	X	NI N/A
UNLESS			
<li>g) did generator/treater claim they are going to monitor for ALL regulated constituents in the waste in lieu of the gener indicating same in the notice? (Rule 311(1): 40 CFR 268.7(a)(1) &amp; 268.9)</li>	268A	<u>u</u> _	_ NI W
<ul> <li>did generator/treater claim they are going to monitor for undertying hazardous waste constituents (except vanadium and zinc), reasonably expected to be present at the generation point, above UTS standards for D001, D002 &amp; TCLP organics? Rule 311(1): 40 CFR 266 Subpart 0 &amp; 268.48)</li> </ul>	268A	×.	_ NI N/A
20. Other than notices for waste exceeding treatment standards, did notices include: (Rule 311(1): 40 CFR 268.7(2)(3)			
a) if the notice is for shipments that meet the standards does the notice include the certification?	268A	Ù.	_ NI@
<ul> <li>if the notice is for shipments under prohibitions does the notice include a statement that the waste isn't prohibited from land disposal &amp; date the waste is subject to prohibition?</li> </ul>	268A	r 1	NI W
prohibited from land disposal. A date the waste is subject to prohibitority.  NOTE: An alternate treatment standard may be used after approval from the Administrator, (40 CFR 268.44).  NOTE: Hazardous waste debris see 40 CFR 268.7(a)(1)(iv) for the notice requirements which must be followed by the states is subject to alternative treatment standards of 40 CFR 268.45.		his hazar	
21. Generator retain on-site records to support determination from knowledge or results from tests? (40 CFR 268.7(a)(6)	268A	124_	_ NI N/A
<ol> <li>If the restricted waste is excluded from being a hazardous waste or solid waste did the generator place a one- time notice stating same in the facility file? (40 CFR268.7(a)(7))</li> </ol>	268A	_نث	NI WA
23. All notices/certifications/demonstrations/other documents retained for 3 years on-site? (40 CFR 268.7(a)(8)	268A	M_	NI N/A
NOTE: This requirement (268.7(e)(8)) applies to solid waste even when the hazardous waste characteristic is removed pr when the waste is excluded from the definition of hazardous waste or solid waste.	ior to disp	osal or	
DILUTION PROHIBITED AS SUBSTITUTE FOR TREATMENT (RULE 311(1):40 CFR 2			1
24. Generator dilute hazardous waste or treatment residue of a hazardous waste to avoid prohibition? (40 CFR: 268,3(a))	268/	- Q	NI N/A
TREATMENT STANDARDS (RULE 311(1):40 CFR 268.40)			
25. If wastes exceeding treatment standards are mixed, was the most stringent standards selected? (40 CFR268.40(c))	268A	<u></u>	_ N N/A
BIENNIAL REPORT (Rule 308: 40 CFR 262.41)			~
DELIVER 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	262D	M	NI N/

27. Were copies of the report retained at least 3 years? (Rule 307(4): 40 CFR 262.40(b))

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262D

PRE-TRANSPORTER REQUIREMENTS (Rule	305: 40 CFR 262.30)		YES, N	ID.
<ol> <li>Waste packaged according to DOT regulations (required before shipping waste off-site (Rule 305(1)(a):40 CFR262.30))</li> </ol>	)?	262C	CO S8	obstvd_ N IN
<ol> <li>Are waste packages marked &amp; labeled per DOT 49 CFR172 concerning hazardous mashipping waste off- site)?(Rule 305(1)(b)(c): 40 CFR 262.32(a))</li> </ol>	aterials (required before	262C	00.5210	obstvd_ NI N
<ol> <li>On containers of 119 gallons or less, is there a warning, generator's name, address, sil manifest tracking number &amp; waste code per DOT 49 CFR172.304? (Rule 305(1)(d): 40</li> </ol>	le identification number, ) CFR 262.32(b))	262C	co.said_	obsrve NI N
1. If required (>1000 #s), are placards available to the transporter? (Rule 305(1)(e): 40 C		262C	X_	NIN
ACCUMULATION TIME (Rule 306: 40	CER 262 34)			0.0
2. If hazardous waste accumulated in containers: (If no, skip to #35)	011(202.04)			- 12
a) containers have accumulation date which is clearly visible? (Rule 306(1)(b): 40 CFI	R 262.34(a)(2))	262C	M	NI N
b) container have words "Hazardous Waste"? (Rule 306(1)(c): 40 CFR 262,34(a)(3))		262C	M	NI N
c) is each container clearly marked with the hazardous waste number? (Rule 306(1)(b	) Addad at time	262C	X	NI N
d) has more than 90 days elapsed since date marked? (Rule 306(1)	of shipmen	¥ 262C		NI N
OR	- T Sulliverse			
e) one of the following apply:				
i) the generator applied for & received an extension to accumulate longer? (Rule 30	06(3): 40 CFR 262.34(b))	262C	[ ]	NI I
<li>ii) It is F006 waste recycled for metals recovery in compliance with Rule 306 (7) (18 Rule 306(7):40 CFR 262.34(g))</li>	0 days maximum).	262C	1.3	NI
iii) It is F006 waste recycled for metals recovery in compliance with Rule 306(7) white more than 200 miles (270 days max.)? (Rule 306(8):40 CFR 262.34(h)	oh must be transported	262C	[ ]	NI/
iv) generator applied for & received extension or exception to accumulate F006 haz (Rule 306(9-10):40 CFR 262,34(I))	waste longer than il or ili ab		[ ]	NI
The following Subpart I, 265.170 to 265.177 requirements are referred to	o by Rule 306(1)(a) and	40 CFR 262	34(a)(1	-
f) are containers in good condition? (265.171)		262C	[20]	NI N
g) are containers compatible with waste in them (265.172)	***	262C	M	NI N
h) are containers stored closed? (265.173(a))		262C	[M	NI N
i) containers handled/stored in a way which may rupture it or cause leaks? (265.173(b	0	262C	I.X	NI N
<li>ij) ignitable &amp; reactive wastes stored 15 meters (50 feet) from property line or written a prevention code authority for less than 15 meter? (265.176)</li>			M	NI N
k) are containers inspected weekly for leaks and defects? (265.174)		262C	X	NI N
I) dld the generator document the inspections in 32(k)? (Rule 306(1)(a)(i))		262C	[20]	NI N
m) inspection documents maintained on-site 3 years? (Rule 306(1)(a)(i))		262C	<b>W</b>	NI N
n) are incompatible wastes stored in separate containers? (265.177(a))		262C	[80]	NI N
o) hazardous wastes put in unwashed containers that previously held incompatible wa	iste. (265.177(b))	262C	LIX	NI N
p) incompatible waste separated/protected from each other by physical barriers or suf	ficient distance? (265.177(c	)) 262C	XI_	NI N
Rule 306(2) & 40 CFR 262.34(c)(1) both refer to 40 CFR 2	265,171, 265,172 & 265,	173(a).		
If hazardous waste is being accumulated at the point of generation:			-	
a) container(s) <55 gal or 1 qt acutely/severely toxic? (Rule 306(2):40 CFR 262.34(c)(	(1))	262C	M	NI N
b) container(s) under operator control & near the point of generation? (Rule 306(2): 40	CFR 262.34(c)(1))	262C	M_	NI N
c) container(s) have words "Hazardous Waste"? (Rule 306(2): 40 CFR 262.34(c)(1)(ii)	))	262C	LXI_	NI N.
d) are the container(s) marked with the hazardous waste number or chemical name?	(Rule 306(2))	262C	(X)	NI N
e) are container(s) in good condition? (265.171)		262C	IX	NI N
f) are container(s) compatible with waste in them? (265.172)		262C	X	NI N
g) container(s) closed when not in use & managed to prevent leaks? (265.173(a))		262C	(X	NI N
4. If generator exceeds 55 gallons or 1 quart, w/in 3 days does generator, w/respect to the	at amount of excess waste;	0	SA DO	NI S
a) mark the container with the date the excess amount began accumulating? (Rule 30		262C	N	NI N
b) move to an area with secondary containment, if required? (Rule 306(1): 40 CFR 20		262C	12	NI N
Rule 306(1)(a) refers to containment requiremen	ts in 40 CFR 264.175.			0
5. If accumulating free liquids or any F020, F021, F022, F023, F026, F027, does the haza		iclude	,	
a) impervious base free of cracks? (264.175(b)(1));		262C	M	NI N
	Ec	202C QP 5163 (Rev		

b) sloped or otherwise designed to elevate/protect containers fi	rom contact with liquids? (264.175(b)(2))	262C	1	NI N/A
c) hold 10% of volume of containers or volume of the largest co	ontainer, whichever is greater? (264.175(b)(3))	262C	IN .	NI N/A
d) run-on prevented unless sufficient capacity? (264.175(b)(4))		262C	DV	NI N/A
e) accumulated liquids removed in a timely manner to prevent	overflow? (264.175(b)5)) NoNE	262C	Ý.	NI N/A
NOTE: Closure of Accumulation Area covered under # 53.				81
<ol> <li>If accumulating solids, (other than F020,F021,F022, F023, F026 otherwise designed, or containers elevated or otherwise protected</li> </ol>	ed from contact with liquids? (264.175(c)(1 & 2))	262C	×_	NI N/A
37. Is hazardous waste accumulated in other than tanks or containe not accumulated, i.e.: process tank?	rs? Or, is hazardous waste generated but xplain any yes answer.		×	NI N/A
38. Waste area protected from weather, fire, physical damage & var	ndals? (Rule 306(1)(e))	262C	V	NI N/A
<ol> <li>Hazardous waste accumulated so no hazardous waste or hazar into soil, directly or indirectly, into surface, ground-waters, drains do not violate Act 451, Part 55? (Rule 306(1)(f))</li> </ol>	dous waste constituent can escape by gravity s or sewers, and such that fugitive emissions	262C	X	NI N/A
40. Is hazardous waste accumulated in tanks? If s	so, complete Tank System inspection form.		X	NI N/A
41. Is hazardous waste placed on drip pads?  If s	so, complete Wood Preserving inspection form		2	NI N/A
Pula 306(1)(d) 8 40	CFR 262.34(a)(4) refers to 265.16			
PERSON	NEL TRAINING (265.16)			
42. Did personnel receive training? (265.16)		262C	X_	NI N/A
<ol><li>Do personnel training records contain the following:</li></ol>	3		,	
a) job title? (265.16(d)(1))		262C	<b>X</b> ,	NI N/A
b) job descriptions? (265.16(d)(2))		262C	K.	NI N/A
c) name of employee filling each job? (265.16(d)(1))		262C	K.	NI N/A
d) description of type & amount of both introductory & continue	d training? 265,16(d)(3))	262C	<b>Z</b>	NI N/A
e) training designed so facility personnel can respond to emerg	encies? (265.16(a)(3)	262C	<b>X</b> _	NI N/A
f) records of training? (265.16(d)(4))		262C	×_	NI N/A
g) do new personnel receive required training within 6 months?	(265,16(b)	262C	×_	NI N/A
h) do training records show personnel have taken part in annua	al training? (265.16(c))	262C	<b>Z</b>	NI N/A
i) training by person trained in hazardous waste management	procedures? (265.16(a))	262C	<b>LX</b>	NI N/A
Rule 306(1)(d) & 40 CFR 262.34 PREPAREDNESS A	4(a)(4) refer to 265, Subpart C, 265.30-265.37, ND PREVENTION (265.30-265.37)			,
<ol> <li>Facility maintained/operated to minimize possibility of fire, explo- constituent which could threaten human health/environment? (26)</li> </ol>	sion, release of hazardous waste or hazardous waste	262C	N'X	obarvd_ NI N/A
45. If required, does this facility have the following:	-			
a) internal communications or alarm systems? (265.32(a))		262C	W_	NI N/A
<ul> <li>telephone or 2-way radios at the scene of operations? (265</li> </ul>	32(b))	262C	<b>L</b>	NI N/A
<ul> <li>c) portable fire extinguishers, fire control, spill control equipmer</li> </ul>	nt and decontamination equipment? (265.32(c))	262C	2	NI N/A
d) adequate volume of water and/or foam available for fire cont	rol? (265,32(d))	262C	X_	NI N/A
46. Testing and Maintenance of Emergency Equipment		200000		
a) owner/operator test & maintain emergency equipment to ass	sure operation? (265.33)	262C	X _	NI N/A
b) has owner/operator provided immediate access to internal a	larms? Access to alarm system is applicable only if re	quired (	40 CFR 2	265, 32)
i) when hazardous waste is being poured, mixed, etc. (265	.34(a))	262C	X	NI N/A
ii) if only one employee on the premises while facility is open	rating. (265.34(b))	262C		NI NIA
c) aisle space for unobstructed movement of personnel/emerge	ency equipment? (265.35)	262C	X_	NI N/A
47. Has the facility made arrangements with local authorities? (265.3	37(a)&(b))	262C	X	NI N/A
Rule 306(1)(d) & 40 CFR 262 CONTINGENCY PLAN AND EI	.34(a)(4) refer to Subpart D, 265.50-265.56. MERGENCY PROCEDURES (265.50-265.56)	20		
48. Plan implemented whenever fire/explosion/release could threate		262C	[[ ]	N N/A
49. Does the contingency plan contain the following:			-	
a) actions personnel must take responding to fires/explosions/L	implanned release of hazardous waste? (265.52(a & b)	262C	rxi	NI N/A
<ul> <li>b) describe arrangements w/ local police, fire, hospitals, contra- emergency services; (265.52(c)) &amp; (265.37(a)&amp;(b))?</li> </ul>		262C	X	
Berral agreement (monineful) a (moninefulato))		2026		NI N/A

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c) name, addresses & phone (office & home) of emergency coordinator? (265.52)(d))	262C	X-	NI N/A
d) list emergency equipment at the facility, including location, physical description & capabilities? (265.52(e))	262C	<b>W</b> _	NI N/A
e) evacuation plan for personnel w/ signal(s), evacuation routes & alternate evacuation routes. (265.52(f))	262C	X	NI N/A
50. Does the facility have an Emergency Coordinator? (265.55)	262C	X_	NI N/A
Emergency Coordinator and Emergency Procedures:			
a) emergency coordinator familiar with site operation & emergency procedures? (265.55)	262C	<u> </u>	NI N/A
b) emergency coordinator has the authority to carry out the contingency plan? (265.55)	262C	5	NI N/A
c) if emergency occurred, did the emergency coordinator follow emergency procedures? (265.56)	262C	LJ	NI NIA
<ul> <li>d) fire/explosion/other release of hazardous waste/haz, waste constituents, could threaten human health or environ or generator has knowledge spill reached surface or ground water, did generator notify MDEQ? (Rule 306(1)(d))</li> </ul>	nent 262C	ப	NI NA
1. Contingency plan Amendments and Copies	1		_
a) amended: fails in emergency; changes in regulations/emergency coordinators/emergency equipment? (265.54)	262C	□	NI N/A
b) copies of plan on site and sent to local emergency organizations? (265.53)	262C		NI N/A
Rule 309 refers to 262. Subpart E except 262.54 & 262.55 INTERNATIONAL SHIPMENTS (Rule 309 & 310: 40 CFR 262.50-262.60)		0	M
52. Has the facility imported or exported hazardous waste?		_X	NI N/A
a) exporting, has the generator:			
i) notified the Administrator in writing <12 months prior to shipment? (Rule 309(1): 40 CFR 262.53(a))	262E	Ш	NI N/A
ii) receiving country consented to accept waste. (Rule 309(1): 40 CFR 262.52(b))	262E	Ш_	NI NA
iii) has copy of EPA Acknowledgment of Consent. (Rule 309(1): 40 CFR 262.52(c))	262E	ப	NI NA
iv) complied with manifest requirements in Rule 309(2)(a-h).	262E		NI NA
v) if required, was an exception report filled. (309(3)(a-c))	262E	1 1	NI NA
b) importing, has the generator met manifest requirements? (Rule 310: 40 CFR 262.60)	262F	[ ]	NI NA
Rule 306(1)(g) and 40 CFR 262.34(a)(1) refers to 40 CFR 265.111 & 265.114 ACCUMULATION AREA CLOSURE (265.111 & 265.114)  33. The accumulation area must be closed in a manner that:			
a) minimizes need for further maintenance (Rule 306(1)(g): 40 CFR 265.111(a))	262C		NI (N/A)
<ul> <li>controls/minimizes/eliminates, to protect human health &amp; environment, the escape of haz. waste or hazardous waste constituents, leachate, run-off to ground/surface waters and air. (Rule 306(1)(g): 40 CFR 265.111(b))</li> </ul>	262C	<u></u>	NI N/A
c) all contaminated equipment, structures, and soil properly disposed of. (Rule 306(1)(g): 40 CFR 265.114)	2020	Ы	NI NA
COMMENTS:			
	4		-
	34		
8			

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### Department of Environmental Quality GENERATOR TANK INSPECTION FORM

Facility's Name			Part 3 Rule
Date	ID#	19	94 PA 45
abbreviated	FACILITY COMPLIANCE REQUIRED IN ALL AR	REAS	
_	LL TANK SYSTEMS ACCUMULATION TIME (Rule 306: 40 C	FR 252.34)	
NI - Not Inspected N/A - Not Ap	Honble 1	N.	YES NO
1. Has more than 90 days elaps	d since tank was emptied? (If yes, operating license required per Part 5	5 of Rules.	1/
(Rule 306(1): 40 CFR 262.34	a)) with the words "Hazardous Waste" (Rule 306 (1)(c): 40 CFR 252.34(a	GPT O(3)) GPT	NI NI
NOTE: Rule 306(1)(a)(ii) & 40 CF	R 252.34(a)(1)(ii) refer to 265 Subpart J, except 265.197(c) and 265.20	0 & Rule 615, except Subrule (	1).
	GENERAL OPERATING REQUIREMENTS (Rule 306: 40 CF		-
3. Could wastes placed in tank s	stem cause ruptures, leaks, corrosion or other failure? (265.194 (a))	GPT	_ (X) NI
4. Controls & practices to preven	spills & overflows must include: (265.194(b))		
a) spill prevention controls. (2	5.194(b)(1))	GPT	M_ NI
b) overfill prevention controls.	(265.194(b)(2)).	GPT	XI_ NI
c) freeboard in uncovered tan	s to stop overtopping by wave or wind action or precipitation. (265.194	(b)(3)). GPT	LJ_ NI
NOTE: Response to leaks, spills	and disposition of leaking or unfit-for-use tank systems is in 40 CFR 26	5.196.	
	ntainment system from which there has been a leak, spill or which is ur		NI
a) removed from service imm	diately? (265.196)	GPT	LI_ NI
b) completed requirements in	265.196(a-f)	GPT	[_] NI
	(NODEOTIONS (D. J. 200(4).40 CED 255 405)		
6 Where prepart has the facility	INSPECTIONS (Rule 306(1):40 CFR 265.195) Inspected at least once each operating day: (265.195(a))		7
	ntrol equipment (daily). (265.195(a)(1))	GPT	NI NIN
b) monitoring equipment date		GPT	NIN EI
The second secon	nk system (daily). (265.195(a)(2))	GPT	NIN A
d) materials and area around		GPT	NIN A
		GPT	IN NIN
e) are the inspections docum		<b>U</b> ,	_ 101
	n system, if present, for in-ground tanks:	GPT GPT	[ ] NI
	ix months after initial installation (annually thereafter). (265.195 (b) (1))	GPT	[ ] NIN
	d and/or tested at least bimonthly. (265.195 (b) (2))	GPT	
c) are the inspections docum			NI
	QUIREMENTS FOR IGNITABLE OR REACTIVE WASTE (Rul	e 306(1):40 CFR 265.198)	
<ol><li>Ignitable or reactive waste mu</li></ol>	AND HAMMAN AND AND HAMMAN AND AND AND AND AND AND AND AND AND A		
	nediately after placed in the tank system, so: (265.198(a)(1))		
	nger ignitable/reactive. (265.198(a)(1)(i))	GPT	
ii) does not cause environ	nental or structural damage to tank systems. (265.198(a)(1)(li))	GPT	□_ NI
	OR		1
b) waste stored/treated so pr	tected from igniting or reacting. (265.198(a)(2))	GPT	A_ NI
	OR		
c) tank system is used solely	for emergency. (265.198(1)(3))	GPT	NI
9. Observes National Fire Prote	tion Association's buffer zone for tanks w/ ignitable or reactive wastes? of NFPA's Flammable & Combustible Liquids Code - 1977" to determin	7 (265.198(b)) ne compliance) GPT	M A
rSee tables 2-1 through 2-6			T IVI

<ol> <li>Is the tank system designed, constructed, operated and maintained in conformance with requirements of Act 207, Michigan flammable liquid regulations. (Rule 615(4)</li> </ol>	GPT	Compar	NINIA
11. Is the tank labeled in accordance with NFPA standard # 704? (Rule 615(5))	GPT	<u> </u>	NI N/A
INCOMPATIBLE WASTE (Rule 306(1):40 CFR 265.199)			_
12. Are incompatible wastes stored in separate tanks? (265,199(a)) (If not, the provisions of 265,17(b) apply).	GPT	<b>□</b> 1_	_ NI N/
13. Tank decontaminated before hazardous waste placed in it that held incompatible waste, unless 265.17(b). (265.199(b)).	GPT	⊔.	_ NI NV
CLOSURE AND POST-CLOSURE (265.197) NOTE: At lank system closure refer to 265.197 for closure/post closure care, except 265.197(c).			-
14. If the tank system is closed, did the facility follow the requirements in 265.197? (265.197).	GPT	Ц_	NI NA
EXISTING TANK SYSTEMS REQUIREMENTS FOR EXISTING TANK(S) CONTAINING LIQUID WASTE THAT DO NOT MEET THE REQUIREMENTS OF 265,193 (Rule 615)			
15, Are above ground tanks:			-
<ul> <li>a) paved, diked or cubed or otherwise enclosed to contain not less than 100% of the largest tank? (Rule 615(2)(a))</li> </ul>	GPT	Ц_	- NI NIA
b) incompatible waste or interconnected tanks must have 100% containment for each tank. (Rule 615(2)(a))	GPT	Ц_	NIME
16. Do underground tanks:			
<ul> <li>a) have secondary containment and a leachate withdrawal system? (Rule 615(2)(b)(i))</li> </ul>	GPT	L1_	NI N/A
b) complete an inventory of wastes not less than twice a month? (Rule 615 (2)(b)(ii))	GPT		_ NI NIA
c) leachate sampling analysis at least once per year (if b shows loss, sample within 24 hours). (Rule 615(2)(b)(iii)	GPT	$\Box$	_ NI NIA
require a certification by an independent engineer.  Note: Tanks woul free liquids in a building w/impermeable floor & tanks part of secondary containment system are exempt (  ASSESSMENT OF EXISTING TANK SYSTEM'S INTEGRITY (Rule 306(1):40 CFR 265.1)	mpany. 1 265.190(i	it aoes i	nol
Note: The determination that secondary containment does or does not meet the standards in 265.193 can be made by the or require a certification by an independent engineer.  Note: Tanks w/out free liquids in a building w/ impermeable floor & tanks part of secondary containment system are exempt (	mpany. 1 265.190(i	it aoes i	no!
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i) a liner (external to tanks) & must satisfy the following requirements. (265.193(d)(1))

A) 100% capacity of largest tank within its boundary. (265.193(1)(i))

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GPT 🔼 NI N/A

YES NO

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# Department of Environmental Quality UNIVERSAL WASTE SMALL QUANTITY HANDLER (SQH) INSPECTION

Fac	cility Name bouguell budge and Sactes of		_Part 2	2 Rules
Da			_1994 F	PA 451
vas	H may choose to manage the following as universal waste when they accumulate quantities of 5000 kg (11,000 is test on site; antifreeze; batteries [except lead acid batteries managed per R 289.9804]; consumer electronics druds, liquid crystal display, or plasma display); electric lamps [fluorescent, high Intensity discharge [HID], sodiu, m, metal halide, incandescent lamps, and cathode ray tubes (CRTs) from computers, televisions, etc.]; mercury, metal halide, incandescent lamps, and cathode ray tubes (CRTs) from computers, televisions, etc.]; mercury switches, mercury thermometers, waste devices containing only elemental mercury; various pesticides; procury switches, mercury thermometers, waste devices containing only elemental mercury; various pesticides; procury switches, mercury thermometers, waste devices containing only elemental mercury; various pesticides; procury switches, mercury thermometers, waste devices containing only elemental mercury; various pesticides; procury switches, mercury thermometers, waste devices containing only elemental mercury; various pesticides; procury switches, mercury thermometers, waste devices containing only elemental mercury; various pesticides; procury switches, mercury thermometers, waste devices containing only elemental mercury; various pesticides; procury switches, mercury thermometers, waste devices containing only elemental mercury; various pesticides; procury switches, mercury thermometers, waste devices containing only elemental mercury; various pesticides; procury switches, mercury thermometers are violations.  Yes a contain the procury thermometers are violations.  (NI - Not Inspection)	m vapor, n items: the oharmaceu	nercury v rmostats ticals.	pplicable
	PROHIBITIONS (Rule 228(4): 40 CFR 273.11)	070 5	YES N	
	Does SQH dispose of universal waste? (Rule 228(4): 40 CFR 273.11(a))	273.B	-1	NI NI
	Does SQH dilute or treat universal waste, except responding to releases or managing certain waste when included below? (Rute 228(4): 40 CFR 273.11(b))	273.B	\	NI NI
	WASTE MANAGEMENT (Rule 228(4): 40 CFR 273.13, 273.14)			
	ANTIFREEZE: (Rule 228(4)	QTY HA	NDLED:	_
		73.B	_بــا	_ NI N/
	Do containers show evidence of leakage, spillage, or damage? If so, are these containers over packed in a container that meets requirements? (Rule 228(4)(h)(ii)(B))	273.B	LJ_	NI N
	If tanks are used to store antifreeze, do they meet requirements in 40 CFR 265 Subpart J except 265.197(o), 265.200, & 265.201? (Rule 228(4) (h) (ii) (C), [USE TANK CHECKLIST]	273.B	<u>ப</u> _	NI N
	Are containers labeled "UNIVERSAL WASTE ANTIFREEZE" or "WASTE ANTIFREEZE" or "USED ANTIFREEZE"? (Rule 228(4)(h)(iv))  If a release occurred, was it immediately cleaned up & properly characterized for disposal? (Rule 228(4)(e)(ii))	273.B 273.B	Li_	NI NI
	BATTERIES: (Rule 228(4) adopts 40 CFR 273 except 273.10 &273.18(h) requirements)  Are batteries managed in way to prevent releases? (Rule 228(4)(a): 40 CFR 273.13(a)	QTY HA 273.B	NDLED:	NI N/
3.	Are batteries that show evidence of leakage, spillage, or damage that could cause leaks put in containers that are		7	
	kept closed, structurally sound, compatible w/ contents of battery, & lack evidence of leakage, spillage of damage that could cause leakage? (Rule 228(4): 40 CFR 273.13(a)(1))	273.B		NI NI
	Does the handler do any of the following activities w/ batteries as long as the casings of each battery is not breached intact & closed (except to remove electric): sort by type, mix types in container, discharge to remove electric charge regenerate, disassemble into individual batteries or cells, remove from consumer products, or remove electrolyte? (Rule 228(4)(a): 40 CFR 273.13(a)(2))	& remain e, 273.B	<u>u</u> _	_ NI NI
11.	If electrolyte is removed or other wastes generated from activities in item 10, has it been determined whether it is hazardous waste? (Rule 228(4)(a): 40 CFR 273.13(a)(3))	273.B	<u> </u>	_ N(N
	a. If electrolyte or other waste is hazardous waste, is it managed in compliance with Parts 260-272 and Part 111? (Rule 228(4)(a): 40 CFR 273.13(a)(3))	273.B	<u>LJ_</u>	_ NI N
	b. If electrolyte or other waste is not hazardous waste, is it managed in compliance with Parts 31, 115 or 121 of 451 & local requirements? (Rule 228(4)(a): 40 CFR 273.13(a)(3))	273.B	LJ_	NI N
12.	. Are batteries or container(s) of batteries labeled w/ either: "UNIVERSAL WASTE-BATTERIES" or "WASTE BATTERIES" or "USED BATTERIES". (Rule 228(4)(a): 40 CFR 273.14(a))	273.B	X.	NI N/
		QTY HAN	DLED:	
	<ul> <li>Are electronics managed in a manner that prevents breakage or the release of any universal waste or components of universal waste by containing electronics in packaging that will prevent breakage during normal handling conditions? (Rule 228(4)f0)(f))</li> </ul>	273.B	X.	NI N
200	OF UNIVERSAL WASTE ELECTRONICS F (Adia 220(4)(1)(1))	S" 3,B	W_	NI N
	Have releases been properly contained, & have residues been characterized, & properly disposed? (Rule 228(4)(f)(iii)	273.B	<u> </u>	_ NI N
16	Does handler do anything beyond any of the following: repair electronics for direct reuse(Rule 228(4)(g)(i); remove oll univ. wastes from cons. electronics (Rule 228(4)(g)(ii)); remove modular components for reuse (Rule 228(4)(g)(iii))	273.B	ш.	_ NIN

		07741144101	FO.	
17	ELECTRIC LAMPS: (Rule 228(4) ;273.13(c);273.14(d)  Are lamps crushed or broken and facility trying to manage as universal waste? (universal worker electric lamps	QTY HANDL	EU;	
	shall not be crushed or broken under MI rule) (Rule 228(4)(C)(I)) Note: different from CFA regulation	273.B	<u>-X</u>	NI N/A
	Are lamps managed in a manner to prevent breakage or the release of any universal waste or components of universal waste by containing unbroken lamps in structurally sound packaging that is compatible with contents of lamps and will prevent breakage, and packaging kept closed? (Rule 228(4(c)(iii))	273.B	X_	NI N/A
	Are lamps or packaging containing lamps labeled either "UNIVERSAL WASTE ELECTRIC LAMP(S)" or "WASTE ELECTRIC LAMP(s)" or "USED ELECTRIC LAMP(s)". (Rule 228(4)(c)(iv)) Note: different from EPA regulation	273.B	X	NI N/A
	Are lamp fragments or residues, & all lamps that show evidence of breakage, leakage, or damage that could cause release of mercury or other hazardous constituents to the environment immediately contained in packaging that is structurally sound & compatible w/ content, & kept closed/ (Rule 228(4)(c)(iii)) Note: different from EPA regulation	n 273.B	ப_	NINIA
21.	If lamp fragments or residues are generated, has it been determined whether it is hazardous waste? (Rule 228(4)(c Note: different from EPA regulation which allows broken lamps to continue to be managed as universal was	)(iii (B)) ste 273.B	Ц_	NI NA
	a. If waste is characteristic is it managed in compliance w/ Part 111, Act 451: 40 CFR Part 260-272?	273.B	<u> </u>	NINA
	b. If waste is not characteristic is it managed in compliance w/ Part 115 of Act 451?	273.B	<u></u>	NINA
	MERCURY DEVICES: (Rule 228(4); 40 CFR 273.13 & 273.14	QTY HAND	LED:	0
22.	Are devices managed to prevent releases? (Rule 228 (4)(d): 40 CFR 273.13(c))	273.B	<u> </u>	NINIA
23.	Are mercury devices that show evidence of feakage, spillage, or damage that could cause leaks placed in a contain that is closed, structurally sound, compatible of contents of device, & lack evidence of leakage, spillage or damage that could cause leakage, & designed to prevent the escape of mercury by volatilization or other means?	273.B	ப_	NI N/A
24.	INUIE 220 (1)(g): "OFF 27-31 (ERMOSTAT(S)" or "USED MERCURY THERMOSTAT(S)" or "WASTE MERCURY THERMOSTAT(S)" or "USED MERCURY THERMOSTAT(S)". (Rule 228 (4)(d): 40 CFR 273.11 (2014) (201	(d)) 273.B	ш_	NI N/A
	Does handler removing ampules meet the following conditions?			_
	a. Does facility try to prevent breakage and is doing removal only over a containment device? (Rule 228 (4)(d): 40 CFR 273.13(c)(2)(i & ii))	273.B	LJ_	NINA
	<ul> <li>b. Does facility have a clean-up system available to transfer spilled material to another container &amp; use it immediate w/ broken or leaking ampules? (Rule 228 (4)(d): 40 CFR 273.13(c)(2)(iii &amp; iv))</li> </ul>	273.B	Ц_	NI NI A
	(Rule 228 (4)(d): 40 CFR 273.13(c)(2) (V))	:73.B		NI N/A
	(Rule 228 (4)(d): 40 CFR 273.13(c)(2)(VI))	73.B		NI N/A
	e. Are removed ampules stored in closed, non-leaking container that is in good condition? (Rule 228 (4)(d): 40 CFR 273.13(c)(2)(vi))	273.B	Ц_	NI N/A
	f. Are removed ampules packed in container with packing material to prevent breakage? (Rule 228 (4)(d): 40 CFR 273.13(c)(2)(viii))	273.B	ப_	NI NA
	When devices do not contain ampules & handler removes original housings that hold mercury, does handler immediately seal original housing to prevent mercury release & follow all ampule management requirements? (Rule 228 (4)(d): 40 CFR 273.13(c)(3))	273.B		NINA
27.	If waste is generated from removal of ampules or housings, or if clean-up residues are generated, is it determined if it is hazardous waste? (Rule 228 (4)(d): 40 CFR 273.13(c)(3)(i))(A&B), 273.13(c)(4)(i)	273.B	ப_	NIN A
L	(Rule 220 (4)(d), 40 CFR 273, 13(c)(4)(ii))	273.B	ш_	_ NI NIA
	b. If waste is not hazardous waste, is it managed in compliance w/ Parts 115 & 121 of Act 451, as applicable? Rule 228 (4)(d): 40 CFR 273.13(c)(4)(iii))	273.B	<u> </u>	NI NI A
	DECEMBER: Duta 228(A) adopte 40 CED 273 except 273 40 £ 273 48(b)	QTY HAND	OLED:	
28.	PESTICIDES: Rule 228(4) adopts 40 CFR 273 except 273.10 & 273.18(h) Handler prevents releases by containing pesticides in containers that are closed, structurally sound & compatible v pesticide, & does not show evidence of leakage, spillage or damage? (Rule 228(4)a): 40 CFR 273.13(b)(1))		ـــا	N N/A
29.	(Rule 228(4)(a): 40 CFR 273.13(b)(2))	273.B	ப_	AN IN
	If slored in tank, are requirements of 40 CFR Part 265, Subpart J met except 265,197(c), 265,200, & 265,201? [USE TANK CHECKLIST] (Rule 228(4)(a): 40 CFR 273,13(b)(3))	273.B	<u></u>	_ NI N/
31.	If stored in transport vehicle or vessel, is it closed, structurally sound & compatible w/ pesticides & shows no evidence of leakage, spillage or damage?? (Rule 228(4)(a): 40 CFR 273.13(b)(4))	273.B	டு_	_ NI N//
32	A STATE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE	273.B	ப_	NI N//
	PHARMACEUTICALS: (Rule 228(4)	QTY HAN	DLED:	
33	Are pharmaceuticals managed in a manner to prevent release of any universal waste or components of universal by containing pharmaceuticals in structurally sound packaging that is compatible w/ contents & will prevent breath by containing pharmaceuticals in structurally sound packaging that is compatible w/ contents & will prevent breath by containing pharmaceuticals in structurally sound packaging that is compatible w/ contents & will prevent breath by containing pharmaceuticals will prevent breath by containing pharmaceuticals will be contained by the containing pharmaceuticals will prevent be contained by containing pharmaceuticals will be contained by the containing pharmaceutical will be contai	waste ge, &		NN

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<ol> <li>Are incompatible pharmaceuticals segregated &amp; adequate distance maintained to prevent contact w/incompatible materials? (Rule 228(4)(e)(iv)</li> </ol>	273.B	<u> </u>	NINA
36. If a release occurred, was it immediately cleaned up and properly characterized for disposal? (Rule 228(4) (e) (ii))?	273.B	LI_	NI NIA
ACCUMULATION TIME LIMITS (Rule 228(4): 40 CFR 273.15)			- 4
37. Is universal waste accumulated one year or less? (Rule 228(4)(a): 40 CFR 273.15(a )) (if no go to question 38)	273.B	N	NI N/A
38. If accumulated over one year, is accumulation necessary to facilitate proper recovery, treatment or disposal?  (burden on handler to demonstrate) (Rule 228(4)(a): 40 CFR 273.15(b))	273.B	A-	NI(N/A)
39. Is length of time universal wastes stored documented by one of the following:			
a. container marked or labeled w/ earliest date when universal waste became a waste?	2017001 0.7		_
(Rule 228(4)(a): 40 CFR 273.15(c)(1))	273.B	<u>u_</u>	N N/A
<ul> <li>individual items of universal waste marked or labeled w/ earliest date it became a waste?? (Rule 228(4)(a): 40 CFR: 273.15(e)(2))</li> </ul>	273.B	ப_	N N/A
<ul> <li>c. inventory system maintained on-site that identifies date each item became a universal waste? (Rule 228(4)(a): 40 CFR 273.15(c)(3))</li> </ul>	273.B	L1_	_ NINIA
<ul> <li>d. inventory system maintained on-site that identifies earliest date items in a group or group of containers became a universal waste? (Rule 228(4)(a): 40 CFR (273.15(c)(4))</li> </ul>	273.B	<u></u>	_ N(N/A)
<ul> <li>universal waste placed in a specific accumulation area &amp; the earliest date is identified when waste was first put in area or date received? (Rule 228(4)(a): 40 CFR (273.15(o)(5))</li> </ul>	273.B	X	_ NI N/A
<ul> <li>f. any other method when demonstrates length of time universal waste accumulated &amp; date it became a waste or received? (Rule 228(4)(a): 40 CFR (273.15(c)(6))</li> </ul>	273.B		NINA
EMPLOYEE TRAINING (Puls 200(A): 40 CER 270 40)			
EMPLOYEE TRAINING (Rule 228(4); 40 CFR 273.16)  40. Are employees familiar w/ universal waste handling/emergency procedures, relative to their responsibilities?		1	
(Rule 228(4): 40 CFR 273.16))	273.B	X_	NI N/A
RESPONSE TO RELEASE (Rule 228(4): 40 CFR 273.17)			
41. Are releases of universal waste & other residue immediately contained? (Rule 228(4): 40 CFR 273.17(a))	273.B	LJ_	_ N NIA
42. Is material from release characterized? (Rule 228(4): 40 CFR 273.17(b))	273.B	LJ_	NI NIA
<ol> <li>If released meterial is hazardous waste is it managed as required under Parts 260 – 271 and Part 1117 (Rule 228(4): 40 CFR 273.17(b))</li> </ol>	273.B	<u> </u>	_ NI NA
OFF-SITE SHIPMENTS (Rule 228(4): 40 CFR 273.18			
44. Is waste sent to another handler, destination facility or foreign destination? (Rule 228(4)(a): 273.18(a))	273,B	X	NI N/A
45. If the SQH self-transports waste, does it comply with the universal waste transporter requirements? (Rule 228(4)(b)	273.B		NI N/A
<ol> <li>If waste is a USDOT hazardous material, are USDOT requirements met w/regard to package/labels/ marking/placards/shipping papers? (Rule 228(4)(a): 273.18(c))</li> </ol>	273.B	X	NI N/A
47. Prior to shipping universal waste off-site did receiver agree to receive shipment? (Rule 228(4)(a): 40CFR 273.18(d)	273.B	X	NI N/A
48. If universal waste shipped off-site is rejected by other handler or destination facility, did originating handler either:			70001100001
a. receive the waste back? (Rule 228(4)(a): 40 CFR 273.18(e)(1))	273.B	r 1	NINA
b. agree to where shipment will be sent? (Rule 228(4)(a): 40 CFR 273.18(e)(2)	273.B	11	NINA
49. If handler rejects part or full load from another handler, did receiving handler contact originating handler & discuss			- 1110
a. sending the waste back to originating handler? : (Rule 228(4)(a): 40 CFR 273.18(f)(1)) OR	273.B	T 1	NI N/A
b. agreeing to where shipment will be sent? (Rule 228(4)(a): 40 CFR 273.18(f)(2))	273.B		N N/A
<ol> <li>If handler received shipment of hazardous waste that is not universal waste, was the WHMD District Supervisor or designee immediately notified? (Rule 228(4)a)):40 CFR 273.18(g)</li> </ol>	273.B		N N/A
<ol> <li>If handler received a shipment of non-hazardous, non-universal waste, was the waste managed in accordance w/applicable waste regulations (e.g. solid, liquid industrial, or medical waste)? (Rule 228(4)(a): 40 CFR 273,18(h))</li> </ol>		7 1	N N/A
1-6			
EXPORTS (Rule 228(4): 40 CFR 273.20)			
52. If waste is sent to a foreign destination does handler:			_
a. comply with primary exporter requirements in 40 CFR 262.53, 262.56(a)(1-4-86) and (b) and 262.57? (Rule 228(4): 40 CFR 273.20(a))	273.B	ப_	_ NI N/A
b. export with consent of receiving country and in compliance with Acknowledgment of Consent, Subpart E, 40 CFR 262? (Rule 228(4): 40 CFR 273.20(b))	273.B	ப_	_ NI NA
c. provide conv. of EDA Advisorded remont of Concept to transporter? (Pula 228/4): 40 CED 273 20/6))	273 B	1 1	AU NIA

TRANSPORTER (Rule 228(6): 40 CFR 273 subpart D except 273.50, 5	3)		/
53. Does transporter dispose of universal waste? (Rule 228(6): 40 CFR 273.51(a))	273.D	1	AIN IN [
54. Does transporter dilute or treat universal waste, except if responding to releases? (Rule 228(6): 40 CFR 273.51(b))	273.D	[	J MANA
<ol> <li>If transporting responds to release, do they immediately contain it and characterize residue?</li> <li>If hazardous waste, does transporter meet requirements in 40 CFR 262? (Rule 228(6): 40 CFR 273.54))</li> </ol>	273.D	<b>U</b> _	_ NI N/A
<ol> <li>If universal waste stored at transfer facility over 10 days, does transporter meet applicable handler requirements? (Rule 228(6): 40 CFR 273.54))</li> </ol>	273.D	1.1	NI N/A
57. Does transporter comply w/ USDOT requirements for package/labels/marking/placards/shipping papers if universal is also hazardous material? Shipping papers cannot describe universal waste as "hazardous waste, (i) or (s),	n.o.s."	// (S)	
nor have waste added to USDOT proper shipping name. (Rule 228(6)(a): 40 CFR 273.52 and 273.55(b))  58. Does transporter meet export conditions contained in 273.56 (dependent on which country will receive shipment)? (Rule 228(6): 40 CFR 273.56)	273.D 273.D	<u> </u>	NI N/A
a. has a copy of EPA Acknowledgement of Consent with shipment? (Rule 228(6): 40 CFR 273.56(a)	273.D	( )	NI N/A
b. delivers shipment to facility designated by person initiating the shipment? (Rule 228(6): 40 CFR 273.56(b))	273.D	t 1	NI N/A
COMMENTS:			- 1
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## Department of Environmental Quality, Waste and Hazardous Materials Division USED OIL INSPECTION FORM – GENERATORS

Facility's Name toury well Burdeck & Jackson	_Part 8 Rules
Date 7/19/16 ID# M10072575731	_1994 PA 451
Note: Used oil is defined as "any oil which has been refined from crude oil, or any synthetic oil which has been used and as a result of contaminated with physical or chemical impurities." R 299.9109	ıse, is
APPLICABILITY (Rule 809)	() BSERVE
NI – Not Inspected, N/A – Not Applicable	YES NO
Does the facility generate used oil and any of the following materials which are subject to regulation as used oil:	
a) mixture of used oil and hazardous waste generated by a CESQG regulated pursuant to Rule 205? (Rule 809(1)(a)) UOA	
b) material that contains or is otherwise contaminated w/ used oil & is burned for energy recovery? (Rule 809(1)(b))	
c) used oil that is drained/removed from materials that contain or contaminated w/ used oil? (Rule 809(1)(c)) UOA	
d) mixture of used oil and fuel? (Rule809(1)(d))	
e) material which is produced from used oil & is burned for energy recovery? (Rule 80991)(e))	
<ul> <li>f) used oil that is burned for energy recovery &amp; any fuel produced from used oil by processing, blending or other treatment &amp; exceed following: (Rule 809(1(f))</li> </ul>	s the
i) maximum arsenic concentration of 5ppm UOA	- L
ii) maximum cadmium concentration of 2ppm UOA	
iii) maximum chromium concentration of 10ppm UOA	
iv) maximum lead concentration of 100ppm UOA	
v) minimum flash point of 100 degrees Fahrenheit UOA	
vi) maximum total halogen concentration of 4,000ppm UOA	
g) recycled and a hazardous waste solely because it exhibits a hazardous characteristic? (Rule 809(1)(g))	
h) used oil contains PCB's at any concentration of 50ppm or less? (May also be subject to 40 CFR Part 761) (Rule 809(2)(I)) UOA	
2. Does the facility generate any of the following which exempts it from regulation as used oil: (may be subject to regulation as a hazar	dous waste)
a) mixture of used oil and hazardous waste except as specified in Rule 809(1)(a)? (See question 1.a.) (Rule 809(2)(a))	
<ul> <li>b) used oil including metalworking oils/fluids containing chlorinated paraffin w/ &gt; 1000 ppm total halogens which hasn't been successfully rebutted by demonstrating that it does not contain significant concentrations of halogenated hazardous constituents in 40 CFR Part 261, Appendix VIII? (Rule 809(2)(b))</li> </ul>	217
c) metalworking oils/fluids w/ chlorinated paraffin reclaimed through a tolling agreement? (Rule 809(2)(b)(i))	
d) used oil w/ chlorofluorocarbons from refrigeration units going for reclaim? (Rule809(2)(b)(ii))	
e) material that contains or is otherwise contaminated w/ used oil from which the oil has been removed?(Rule 809 (2)(c))	
f) mixture of used oil/diesel fuel that is mixed on used oil generator's site & used in their own vehicles? (Rule 809(2)(d)) UOA	
g) used oil & material derived from used oil that are disposed of or used in a manner constituting disposal? (Rule 809(2)(e)) UOA	
h) used oil re-refining distillation bottoms used as feed stock to manufacture asphalt products? (Rule 809(2)(f))	BI
i) wastewater, the discharge of which is subject to §402 or §307(b) of the CWA & is contained w/ de minimis quantities of used oil? (Rule 809((2)(g))	x .
j) mixture of used oil/crude or natural gas liquid for insertion into a crude oil pipeline? (Rule 809(2)(h))	
k) mixture of oil/crude or nature gas liquid w/ less than 1% used oil if being stored/transported to crude oil pipeline or petroleum refinery for insertion into process before crude distillation or catalytic cracking? (Rule 809(2)(i))	2
Used oil for insertion into petroleum refining process before crude distillation or catalytic cracking w/out prior mixing if used oil constitutes less than 1% of crude oil feed? (Rule 809 (2)(j))	S.
m) used oil, unintentionally introduced, is captured by a hydrocarbon recovery system or wastewater treatment system at a petroleum refinery & inserted into the refining process? (Rule 809(2)(I))	
n) tank bottoms from stock tanks w/mixture of used/crude oil or nature gas liquids? (Rule 809(2)(m)	
o) used oil produced on vessels from normal shipboard operations while on-ship? (Rule 809(2)(n))	\$
p) specification used oil fuel once the facility demonstrates compliance w/ R 299.9815(3)(b),(c)&(f)? (Rule809(2)(o))	
q) used oil containing polychlorinated biphenyls at 50 ppm or greater? (Rule 809(2)(p))	Rev. 4/03). Page 1

- Dil from vacuum pump is managed as hazardous Waste.
- No other used oil was observed turing the hispection.

#### **GENERATOR REQUIREMENTS** (Rule 810)

NOTE: Used oil generator requirements do not apply to: (1) farmers who generate, in a calendar year, an average of 25gallons per month or less from YES NO vehicles or machinery used on the farm, or (2) household do-it-yourselfer 3. Is the used oil stored in units other than containers or tanks? (Rule 810(4) UOA [ . ] NI N/A UOA NI N/A a) in good condition? (40 CFR 279.22(b)(1)) UOA NI N/A b) not leaking (no visible leaks)? (40 CFR 279.22(b)(2)) UOA NI N/A 4. Are all containers & above ground tanks storing used oil labeled/marked "Used Oil"? (40 CFR 279.22(c)(1)) 5. Are fill pipes used to transfer used oil into underground tanks labeled/marked "Used Oil"? (40 CFR 279.22(c)(2)) UOA NI N/A 6. Upon detection of a release does the facility: UOA NI N/A a) stop the release? (40 CFR 279.22(d)(1)) UOA NI N/A b) contain the released used oil? (40 CFR 279.22(d)(2)) **UOA** NI N/A c) clean-up and manage the released used oil & other material? (40 CFR 279.22(d)(3)) d) if necessary to prevent future release, repair/replace any leaking oil containers or tanks? (40 CFR 279.22(d)(4)) UOA NI N/A GENERATOR REQUIREMENTS FOR ON-SITE BURNING IN SPACE HEATER (Rule 810 refers to 40 CFR 279.23) Does facility that burns used oil in oil-fired space heater(s): a) burn only used oil generated by the owner/operator or from household do-it-yourselfers? (40 CFR 279.23(a)) UOA NI N/A b) burn in heaters designed to have a maximum capacity of not more than 0.5 million BTU per hour?(40 CFR 279.23(b)) UOA NI N/A UOA NI N/A c) have combustion gases vented to the ambient air? (40 CFR 279.23(c)) GENERATOR REQUIREMENTS FOR OFF-SITE SHIPMENTS OF USED OIL (Rule 810 refers to 40 CFR 279.24) 8. Does the facility use a transporter with an EPA identification number? (Rule 810 refers to 40 CFR 279.24) UOA NI N/A OR 9. If the facility does not use a transporter w/ an EPA identification number, does it meet one of the following exemptions? a) self transportation of small amounts to approved collection centers provided that the generator transports: UOA NI N/A i) the used oil in a vehicle owned by the generator or an employee of the generator? (40 CFR 279.24(a)(1)) ii) no more than 55 gallons of used oil at one time? (40 CFR 279.24(a)(2)) UOA NI N/A iii) to a used oil collection center that is registered, licensed, permitted or recognized by government? (40 CFR 279.24(a)(3)) UOA NI N/A b) self transportation of small amounts to aggregation point owned by the generator provided that the generator transports: (40 CFR 279.24(b)) UOA NI N/A i) the used oil in a vehicle owned by the generator or an employee of the generator? (40 CFR 279.24(b)(1)) UOA NI N/A ii) no more than 55 gallons of used oil at one time? (40 CFR 279.24(b)(2)) UOA NI N/A iii) the used oil to a used oil aggregation point that is owned/operated by the same generator? (40 CFR 279.24(b)(3)) c) used oil is reclaimed and the processor returns the oil to the generator under tolling for use as lubricant, cutting oil, or coolant? UOA NI N/A (40 CFR 279.24(c)) UOA NI N/A i) the contract indicates the type and amount of used oil and frequency? (40 CFR 279.24(c)(10)) UOA ii) the contract indicates the vehicle used to transport both ways is owned by the processor? (40 CFR 279.24(c)(2)) NI N/A UOA NI N/A iii) the contract indicates the oil will be returned to the generator? (40 CFR 279.24(c)(3)) **USED OIL DISPOSAL** (Rule 816) 10. Is used oil that cannot be recycled & is being disposed of & is not a hazardous waste managed in accordance w/ applicable UOA NI N/A federal & state regulations? (Rule 816(2)) 11. Is the used oil used as a dust suppressant? (Rule 816(3)) UOA \_] NI N/A COMMENTS:-

Item#	Ins 40 CFR:	pection Checklist fo	or Subpart CC: Air Emission Standa	ards (Cont	ainers)		
CC-1	265. 1080	Do any of the following	ng exclusions apply? If yes, please circle.			YES	NO)
1. W: 2. TI 3. A 4. TI co 5. Th 6. Th	aste was place the container of unit (e.g. tan) the unit is used rective action the unit is used the unit is regu	ed in unit prior to Oct. 6, capacity is less than .1 cuk) has stopped adding wall solely for onsite treatment, Superfund, or other sind solely to manage radioal lated by and operates in a	aste and is undergoing closure ent or storage as a result of remedial activities milar state program			cle if app	plicable):
CC-2	265.1083	Do any of the followi	ng exemptions apply? If yes, please circle			YES	(NO.
(please 1. All millio 2. The 3. The 4. The LDF 5. The CC-3	e circle if app hazardous was on by weight organic contunit is a tank hazardous was treatment to unit is a tank 265.1084  he VO concerements? The rements for m	licable): aste entering the unit has (waste determination requent of all waste entering to used for certain biologic aste placed in the unit me chnology (for organics) to used for bulk feed to an  Waste Determination  miration properly determination concentration must be deasurement and knowled	the unit has been reduced by one of the 8 acceptant treatment et the LDR numerical concentration limits or incinerator and meets certain requirements  incinerator and meets certain requirements	ptable destront has been to be determinated Not Needers in a unit wowledge. Pleaged in con	tion dichich does tainers wh	Determot meet	per processes.  pecified  mination d.  Subpart CC for specific
may b	e necessary to	o evaluate container man	agement prior to requiring VO concentration of	leterminatio	n.		
#	NA=Not A	pplicable, NI=Not Inspected, OK	= In Compliance, DF= Deficiency	NA.	NI	ОК	DF
		CONTA	INER MANAGEMENT 265.1087			1 2	
	I	evel 1	Level 2		Le	vel 3	
equal gallor	to 122 gallor	allons and less than or ns, or larger than 122 manage H.W. in light	Larger than 122 gallons and manage H.W. "in light material service" (definition at 265.1081)	Larger tha by a stabil			treat H.W.
CC-4	265.108	Cor	ntrols				# # # # # # # # # # # # # # # # # # #
-Use of holes the court th	a cover and cor or other open s ontainer	meet DOT requirements atrol with no visible gaps, spaces into the interior of suppression on or above	One of the following: -Use containers that meet DOT requirements -Use containers that operate with no detectable emissions (method 21) -Use containers that are demonstrated to be vapor-tight within the last 12 months (method 27) 265.1087(d)	control 2.contain which	ranics great stabilized i er must be device; or er is vented is exhausted a control ion vents a	er than 50 n a contain vented dir l inside an l through device	00 ppm iner either: rectly to a n enclosure a closed

2	Level	1 (	71/	· Level 2			Level 3		
# : : : :	NA=Not Appli	cable, NI=N	ot Inspected, OK=	In Compliance, DF= Deficiency		NA .	NI	ок	DF
CC -5	265.1087		Waste transf	fer requirements					100 g - 100 g
No waste	transfer requi	rements ap	pply	-Waste transfer requirements apply regard of container alternative used in level 2 -Transfer waste into or out of a container such a manner as to minimize exposure of waste to the atmosphere. Acceptable method include a submerged fill pipe, vapor reconsystem, or fitted opening with a line purging 265.1087(b)(3)	in of the hods very	Not applic	able	*	ч
CC-6	265.1087	OK	Operating	g requirements					
1. Wher 2. betw perfor closed 3. While 4. Conse- Containe -Safety v -A cover i	n transferring veen batch transming the transd) le performing servation and sers may be operatives and con	H.W. in an asfer not exsfer leaves sampling a safety venten while poservation venter a RCF	nd out of the co exceeding 15 m is the area, or the and equipment its are allowed erforming samp vents may be us	ninutes between transfer (note: if the person e process shuts down, the container must be		device, the criteria tha have closed -If an enclo- meet the specified in Verificatio Total Encl- The conta	re are specific to must be med vent and consure is used design and on "Procedure n of a Perma osure" under iner, enclosure.	tly vented to ic design an et same as to ontrol device. I, the enclose operating crite. T-Criteria anent or Te anent or Te of 40 CFR 52 are, control of y have safety	d operating anks that e systems ure must iteria for and imporary741 device or
CC-7	265.1089	SIA	Inspection r	equirements					
- when fac- if wastes If inspecti	s are stored gre	container a eater than a red, facilit	a year, then vis	aptied within 24 hours sually inspect once a year o written plan and schedule to perform inspe	ection	Inspection tanks	requiremen	s are the sar	ne as for
CC-8	265.1087	N(A)	Repair requir	rements					
1. Repair 2. Do not		ndar days	or empty and	nin 24 hours must be made and: remove the container from service		immediate	<u>ly</u> implemen	neasures shalted to ensure ted in completed in completed	e that the
CC-9	265.1090	(4/4)	Recordkeeping	requirements					
meet DO	ner exceeds 12 T standards, re ainer is not ma service	ecords indi	icating that	Since Level 2 waste is "in light material service", no records need to be kept		vented: -If an encl maintained calculation verify that a permaner -Records	osure is used for the most and measure the enclosure total encloser for the close tem are the s	d, records mest recent set the rements per remets the osure (Proced vent and came for those	ust be of formed to criteria of dure T) ontrol

# INTERIM STATUS FACILITIES ORGANIC AIR EMISSION STANDARDS FOR EQUIPMENT LEAKS - Subpart BE

EMISSION STANDARDS FOR EQUIPMENT LEAKS - Subpart BB		
cility's Name Hangwell Burdick & Jackson	0	
te 7/19/16 ID# M(D072575781		
te: Use of the words "process vents" means process vents associated with distillation, fractionation, thin-film evaporation, solv stripping operations managing hazardous waste with organic concentrations of at least 10 ppmw (time weight annual average). Total Organic Emissions shall be abbreviated to TOE te: Equipment with closed-vent systems and control devices shall comply with the provisions of section 265.1033.	ent extracti ge basis).	ion or air or steam
NI - not inspected N/A - not applicable		
TVI - not inspected TVII - not applicable	VEC	NO NI NIA
	IES	NO NI N/A
APPLICABILITY (40 CFR 265.1050)		1
1. If the equipment contains or contacts hazardous waste w/ organic concentrations of at least 10 percent by weight:		
a) Are the units subject to the permitting requirements of part 270? (265.1050(b)(1))	EX	*
OR		
b) Are there hazardous waste recycling units located at the facility that are otherwise subject to the permitting requirements? (265.1050(b)(2))  DA	E	<b>X</b> *
		401
* If the answers to the above questions are <u>no</u> the following regulations do not appry.	1 ap	mann to 1
STANDARDS: PUMPS IN LIGHT LIQUID (40 CFR 265.1052)  Note: Delays in repair are allowed see 265.1059 (#37)  Note: Did the owner/operator subject to the provisions of this subpart comply with the required test methods and procedures:	entru Se (265.1063(	**************************************
2. Pump equipped w/ duel mechanical seal system that includes a barrier fluid system? If yes, its exempt from monthly monitoring (#5) and visual inspections (#6) if: (265.1052(d))		NI N∕A
a) Each duel mechanical seal system is:	100	
I) Operated with a barrier fluid with pressure greater than the pump stuffing box pressure. (265.1052(d)(1)(I))	E [].	NI N/A
OR		
ii) Has a barrier fluid degassing reservoir connected by closed-loop to a control device. (265.1052(d)(1)(ii))	Œ []	NI N/A
OR		
iii) System that purges the barrier fluid into a hazardous waste stream w/no detectable emissions? (265.1052(d)(1)(iii)		NI (N/A)
b) Barrier fluid is not a hazardous waste w/ organic concentrations 10% or greater by weight. (265.1052(d)(2))	Œ []	NI (N/A)
c) Each barrier fluid system equipped w/ a sensor to detect failure of the seal/barrier fluid system. (265.1052(d)(3))	Œ []	NI (N/A)
d) Each calendar week pump has visual inspection for signs of liquids dripping from pump seals. (265.1052(d)(4)) Details of the calendar week pump has visual inspection for signs of liquids dripping from pump seals.	E []	NI (N/A)
e) Each sensor is checked: (265.1052(d)(5)(I))		
I) Daily.	E []	NI (N/A)
OR		
ii) Equipped with audible alarm that is checked monthly to see if working.	1 3 SA	NI N/A
f) Owner/operator has determined a criteria indicating failure of the seal/barrier fluid system. (265.1052(d)(5)(ii))		NI N/A
	AE []	NI_N/A
	AE []	NI N/A
3. The pump designed as in 264.1064(g)(2) for no detectable emissions as indicated by an instrument reading of <500 ppm above background? Yes, pump exempt from monthly monitoring (#5), visual monitoring (#6), repairs (#7a & #7b) and barrier fluid system (#2) if: (265.1052(e))	No	made X NI N/A
a) It does not have an externally actuated shaft penetrating the pump housing. (265.1052(e)(1))	AE []	NI NA

a) Was it repaired as soon as practicable but no later than 15 calendar days after detected? (265.1052(g)(1))

NI

		YES N	O NI N/A
b) Was a first attempt at repair was made no later than 5 calendar days after leak is detected? (265.1052(g)(2))	DAE		NI MA
STANDARDS: PRESSURE RELIEF DEVICES IN GAS/VAPOR SERVICE (40 C) NOTE: Delays in repair are allowed see 265.1059 (#37)	FR 265	.1054)	Flange
17. Is the pressure relief device equipped with a closed-vent system capable of capturing and transporting leakage to a co devices specified in 265.1060? If yes, the device is exempt from relief device monitored for no detectable emissions (#18), specifications to reset device and time frame (#19 & #20). (265.1054(c))		_>	NI N/A
8. Pressure relief devices in gas/vapor service operated w/ no detectable emissions indicated by an instrument reading of <500 ppm above background, except during pressure releases? (265.1054(a))	f DAE	<u> </u>	_ NI N/A
19. After a pressure release, was the device returned to a condition of no detectable emissions indicated by an instrument reading of <500 ppm above background, as soon as practical but no later than 5 calendar days? (265.1054(b)(1))	DAE	<u> </u>	_ NI N/A
20. No later than 5 calendar days after a pressure release, is the pressure relief device monitored to confirm no detectable emissions indicated by an instrument reading of <500 ppm above background,? (265.1054(b)(2))	DAE	LI _	_ NI N/A
STANDARDS: SAMPLING CONNECTING SYSTEMS (40 CFR 265.10.	55)		
<ol> <li>Is the sampling system in situ? If yes, the system isn't required to have closed-vent or closed-purge system (#22 &amp; # (265.1055(c))</li> </ol>	23). DAE	an &	NI NA
22. Is each sampling connection system equipped with a closed-purge system or closed-vent system? (265.1055(a))	DAE		NI N/A
23. Does each closed-purge or closed-vent system: (265.1055(b))		di di	9
<ul> <li>Return purged hazardous waste stream directly to hazardous waste management process line w/ no detectable emissions? (265.1055(b)(1))</li> </ul>	DAE	Ц_	_ NI (N/A)
OR	e hum	10	
b) Collect and recycle the purged hazardous waste stream with no detectable emissions? (265.1055(b)(2))	DAE	Ц_	NI (N/A)
OR			
c) Designed/operated to capture/transport all purged hazardous waste stream to a control device? (265.1055(b)(3))	DAE		NI (N/A)
STANDARDS: OPEN-ENDED VALVES OR LINES (40 CFR 265.1056) Note: Delays in repair are allowed see 265.1059 (#37) Note: Did the owner/operator subject to the provisions of this subpart comply with the required test methods and procedu		65.1063(b	-I)) (#41)
24. Is each open-ended valve or line equipped with a cap, blind flange, plug or second valve? (265.1056(a)(1))	DAE	X.	NI N/A
25. Cap/blind flange/plug/second valve always seal open end except when waste must flow through? (265.1056(a)(2))	DAE	X-	_ NI N/A
26. If using a second valve, is the first valve closed before the second? (265.1056(b))	DAE	N.	_ NI N/A
27. If a double block and bleed system is used and the bleed line/valve stays open during venting, is the line between the valves have cap/blind flange/plug/second value and sealed at all other times? (265.1056(c))	block DAE	LJ_	_ NI (N/A)
STANDARDS: VALVES IN GAS/VAPOR SERVICE OR IN LIGHT LIQUID SERVICE  Note: There are alternate standards for valves in gas/vapor or light liquid service where owners/operators may elect to he waste management unit comply with alternative standards which: (1) allows no greater than 2% of the valves to le allows for skip period leak detection and repair. (265.1062(a-b))  Note: Delays in repair are allowed see 265.1059 (#37)	ave all va	alves with	in a hazardous
28. Valve designated as an unsafe-to-monitor valve as described in 265.1064(h)(1). If yes, the valve is exempt from monitoring (#31) if: (265.1057(g))	onthly DAE		NI N/A
a) The owner/operator of the valve determines that the valve would be unsafe to monitor because monitoring perso would be exposed to an immediate danger. (265.1057(g)(1))	nnel DAE	[]	NI WA

Tightening of bonnet bolts?

	YES NO NI N/A
b) The owner/operator of the valve adheres to a written plan that requires monitoring of the valve as often as possible during safe-to-monitor times. (265.1057(g)(2))  DAE	LI NI (VA)
29. Valve designated as a difficult to-monitor valve in 265.1064(h)(2). If yes, the valve is exempt from monthly monitoring (#31) if: (265.1057(h))	X NI_NVA)
a) The owner/operator of the valve determines the valve cannot be monitored without elevating personnel more than 2 meters above a support surface. (265.1057(h)(1))  DAE	[_] NI N/A
b) Hazardous waste management unit where valve is located was in operation before 6/21/90. (265.1057(h)(2)) DAE	L] NI N/A
c) Follow written plan that requires monitoring of valve at least once per calendar year. (265.1057(h)(3)) DAE	LI NI N/A
30. Valve designated for no detectable emissions, as indicated bt instrument reading of <500 ppm above background, and described in 265.1064(g)(2). If yes, the valve is exempt from monthly monitoring (#31) if: (265.1057(f))  DAE	X NI N/A
a) It has no external actuating mechanism in contact with the hazardous waste streams. (265.1057(f)(1)) DAE	L] NI N/A
b) It is operated with emissions <500 ppm above background. (265.1057(f)(2))	L] NI N/A
c) It is tested for emissions initially and then annually. (265.1057(f)(3))	[] NI N/A
31. Is each valve, other than unsafe or difficult-to-monitor or no detectible emissions (#28-30), in gas/vapor or light liquid service monitored monthly for leaks? (265.1057(a)) (exemptions 33 & 34)  DAE	L] X NI N/A
OR	
32. Any valve for which a leak has not been detected for two successive months may be monitored the first month of every succeeding quarter, until a leak is detected? (265.1057(c)(1))	_ NI N/A
AND	
33. If the monitoring was every quarter and a leak is detected was the monthly monitoring resumed until a leak was not	
detected for 2 consecutive months? (265.1057(c)(2))	[] NI N/A
	[] NI(N/A)
detected for 2 consecutive months? (265.1057(c)(2))  DAE	
detected for 2 consecutive months? (265.1057(c)(2))  DAE  34. When a leak is detected, by an instrument reading of 10,000 ppm or greater: (265.1057(b)): (265.1057(d)(1))	[] NI_N/A
detected for 2 consecutive months? (265.1057(c)(2))  34. When a leak is detected, by an instrument reading of 10,000 ppm or greater: (265.1057(b)): (265.1057(d)(1))  a) Was it repaired as soon as practicable but not later than 15 calendar days after detected? (265.1052(d)(1))  DAE	
detected for 2 consecutive months? (265.1057(c)(2))  34. When a leak is detected, by an instrument reading of 10,000 ppm or greater: (265.1057(b)): (265.1057(d)(1))  a) Was it repaired as soon as practicable but not later than 15 calendar days after detected? (265.1052(d)(1))  b) Was a first attempt at repair made no later than 5 calendar days after leak is detected? (265.1052(d)(2))  DAE	
detected for 2 consecutive months? (265.1057(c)(2))  34. When a leak is detected, by an instrument reading of 10,000 ppm or greater: (265.1057(b)): (265.1057(d)(1))  a) Was it repaired as soon as practicable but not later than 15 calendar days after detected? (265.1052(d)(1))  b) Was a first attempt at repair made no later than 5 calendar days after leak is detected? (265.1052(d)(2))  c) Was the first repair attempt include, but not limited to: (265.1057(e))	L] NI NA
detected for 2 consecutive months? (265.1057(c)(2))  34. When a leak is detected, by an instrument reading of 10,000 ppm or greater: (265.1057(b)): (265.1057(d)(1))  a) Was it repaired as soon as practicable but not later than 15 calendar days after detected? (265.1052(d)(1))  b) Was a first attempt at repair made no later than 5 calendar days after leak is detected? (265.1052(d)(2))  C) Was the first repair attempt include, but not limited to: (265.1057(e))  DAE  1) Tightening of bonnet bolts?	[] NI NA
detected for 2 consecutive months? (265.1057(c)(2))  34. When a leak is detected, by an instrument reading of 10,000 ppm or greater: (265.1057(b)): (265.1057(d)(1))  a) Was it repaired as soon as practicable but not later than 15 calendar days after detected? (265.1052(d)(1))  b) Was a first attempt at repair made no later than 5 calendar days after leak is detected? (265.1052(d)(2))  c) Was the first repair attempt include, but not limited to: (265.1057(e))  I) Tightening of bonnet bolts?  DAE  ii) Replacement of bonnet bolts?  DAE	[] NI NA [] NI NA
detected for 2 consecutive months? (265.1057(c)(2))  34. When a leak is detected, by an instrument reading of 10,000 ppm or greater: (265.1057(b)): (265.1057(d)(1))  a) Was it repaired as soon as practicable but not later than 15 calendar days after detected? (265.1052(d)(1))  b) Was a first attempt at repair made no later than 5 calendar days after leak is detected? (265.1052(d)(2))  C) Was the first repair attempt include, but not limited to: (265.1057(e))  I) Tightening of bonnet bolts?  DAE  ii) Replacement of bonnet bolts?  DAE  iii) Tightening of packing gland nuts?	L] NI_NA  L] NI_NA  L] NI_NA  L] NI_NA  VICES IN LIGHT
detected for 2 consecutive months? (265.1057(c)(2))  34. When a leak is detected, by an instrument reading of 10,000 ppm or greater: (265.1057(b)): (265.1057(d)(1))  a) Was it repaired as soon as practicable but not later than 15 calendar days after detected? (265.1052(d)(1))  b) Was a first attempt at repair made no later than 5 calendar days after leak is detected? (265.1052(d)(2))  C) Was the first repair attempt include, but not limited to: (265.1057(e))  1) Tightening of bonnet bolts?  DAE  ii) Replacement of bonnet bolts?  DAE  iii) Tightening of packing gland nuts?  DAE  STANDARDS: PUMPS AND VALVES IN HEAVY LIQUID SERVICE, PRESSURE RELIEF DEVLIQUID OR HEAVY LIQUID SERVICE AND FLANGES AND OTHER CONNECTORS (40)	L] NI_NA  L] NI_NA  L] NI_NA  L] NI_NA  VICES IN LIGHT
detected for 2 consecutive months? (265.1057(c)(2))  34. When a leak is detected, by an instrument reading of 10,000 ppm or greater: (265.1057(b)): (265.1057(d)(1))  a) Was it repaired as soon as practicable but not later than 15 calendar days after detected? (265.1052(d)(1))  b) Was a first attempt at repair made no later than 5 calendar days after leak is detected? (265.1052(d)(2))  C) Was the first repair attempt include, but not limited to: (265.1057(e))  I) Tightening of bonnet bolts?  DAE  ii) Replacement of bonnet bolts?  DAE  iii) Tightening of packing gland nuts?  DAE  iv) Injection of lubricant into lubricating packing?  DAE  STANDARDS: PUMPS AND VALVES IN HEAVY LIQUID SERVICE, PRESSURE RELIEF DEY LIQUID OR HEAVY LIQUID SERVICE AND FLANGES AND OTHER CONNECTORS (40 NOTE: Delays in repair are allowed see 265.1059 (#37)  35. Are pumps and valves in heavy liquid service, pressure relief devices in light or heavy liquid service and flanges and other connectors monitored within 5 days if evidence of a potential leak is found by visual, audible, olfactory or other detection	L] NI_NA  L] NI_NA  L] NI_NA  L] NI_NA  VICES IN LIGHT  CFR 265.1058)  No \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
detected for 2 consecutive months? (265.1057(c)(2))  34. When a leak is detected, by an instrument reading of 10,000 ppm or greater: (265.1057(b)): (265.1057(d)(1))  a) Was it repaired as soon as practicable but not later than 15 calendar days after detected? (265.1052(d)(1))  b) Was a first attempt at repair made no later than 5 calendar days after leak is detected? (265.1052(d)(2))  DAE  c) Was the first repair attempt include, but not limited to: (265.1057(e))  1) Tightening of bonnet bolts?  DAE  ii) Replacement of bonnet bolts?  DAE  iii) Tightening of packing gland nuts?  DAE  STANDARDS: PUMPS AND VALVES IN HEAVY LIQUID SERVICE, PRESSURE RELIEF DEV LIQUID OR HEAVY LIQUID SERVICE AND FLANGES AND OTHER CONNECTORS (40 NOTE: Delays in repair are allowed see 265.1059 (#37)  35. Are pumps and valves in heavy liquid service, pressure relief devices in light or heavy liquid service and flanges and other connectors monitored within 5 days if evidence of a potential leak is found by visual, audible, olfactory or other detection method? (265.1058)(a))	L] NI_NA  L] NI_NA  L] NI_NA  L] NI_NA  /ICES IN LIGHT  CFR 265.1058)  No \ ca.\s  L] NI_NA
detected for 2 consecutive months? (265.1057(c)(2))  34. When a leak is detected, by an instrument reading of 10,000 ppm or greater: (265.1057(b)): (265.1057(d)(1))  a) Was it repaired as soon as practicable but not later than 15 calendar days after detected? (265.1052(d)(1))  b) Was a first attempt at repair made no later than 5 calendar days after leak is detected? (265.1052(d)(2))  C) Was the first repair attempt include, but not limited to: (265.1057(e))  1) Tightening of bonnet bolts?  DAE  ii) Replacement of bonnet bolts?  DAE  iii) Tightening of packing gland nuts?  DAE  STANDARDS: PUMPS AND VALVES IN HEAVY LIQUID SERVICE, PRESSURE RELIEF DEY LIQUID OR HEAVY LIQUID SERVICE AND FLANGES AND OTHER CONNECTORS (40 NOTE: Delays in repair are allowed see 265.1059 (#37)  35. Are pumps and valves in heavy liquid service, pressure relief devices in light or heavy liquid service and flanges and other connectors monitored within 5 days if evidence of a potential leak is found by visual, audible, olfactory or other detection method? (265.1058)(a))  DAE  36. If a leak was detected, by an instrument reading of 10,000 ppm or greater: (265.1058(b))	L] NI_NA  L] NI_NA  L] NI_NA  L] NI_NA  /ICES IN LIGHT  CFR 265.1058)  No \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

		YES NO NI N
ii) Replacement of bonnet bolts?	DAE	L] NI(N
iii) Tightening of packing gland nuts?	DAE	L] NI N
iv) Injection of lubricant into lubricating packing?	DAE	[_] NI N

NI N/A 37. Was there a delay in repair of equipment for which leaks have been detected? If yes, the delay is allowed if: DAE a) Was the repair technically infeasible without a shutdown of the hazardous waste management unit and did the repair NI NA occur before the end of the next shutdown? (265.1059(a)) DAE Was the equipment isolated from the hazardous waste management unit and the unit does not contain or contact hazardous waste with organic concentrations at least 10% by weight. (265.1059(b)) DAE NI N/A 38. Was there a delay in repair of a valve? If yes, the delay is allowed if: NI MA a) Determine emissions from purged material from immediate repair are greater than emissions resulting from a delay of NI N/A the repair. (265.1059(c)(1)) b) When repaired, the purged material is collected and destroyed or recovered in a control device. (265.1059(c)(2)) NI NA DAE DAE NI N/A 39. Was there a delay in repair of a pump? If yes, the delay will be allowed if: a) Repair requires the use of a duel mechanical seal system that includes a barrier fluid system. (265.1059(d)(1)) DAE NI NA b) Repair is completed as soon as practicable but within 6 months. (265.1059(d)(2)) DAE NI NA 40. Was there a delay in repair of a valve beyond a hazardous waste management unit shutdown? If yes, the delay will be NI NA allowed until the next shutdown or longer if the shutdown is within 6 months if: (265.1059(e)) DAE a) The valve assembly replacement is necessary during shutdown. DAE f 1 NI NA b) Valve assembly supplies have been depleted & supplies were sufficiently stocked before supplies were depleted. NI NA DAE

TEST METHODS AND PROCEDURES (40 CFR 265.1063)

41.	Die	d the owner/operator subject to the provisions of this subpart comply with the required test methods and procedures: (265.	1063(b-I))
	a)	For leak detection monitoring? (265.1063(b))	M NI N/A
	b)	For 'no detectible' emissions determination? (265.1063(c))	LI _ NI N/A
Meride	c)	To determine if each piece of equipment contains or contacts a hazardous waste w/ organic concentrations ≥ 10% by weight? (265.1063(d))  DAE	X _ NI N/A
	d)	To determine if pumps or valves are in light liquid service? (265.1063(h))  DAE	NI N/A
	e)	To determine if the control device achieved 95 weight percent organic emissions? (265.1063(I))  DAE	LI _ NI N/A
		ere samples used in determine the percent organic content representative of the highest TOC hazardous waste that is cted to be contained in or contact the equipment? (265.1063(g))  DAE	L] X NI N/A

RECORDKEEPING REQUIREMENTS (40 CFR 265.1064)

Note: Owners/operators with more than one hazardous waste management unit, subject to these regulations, may use one recordkeeping system if each unit is identified.

42.	Did the owners/operators record the following information in the operating record for each piece of equipment subject	t to Subp	art BB?	(265.1064(b))
	a) Equipment identification number and hazardous waste management unit identification? (265.1064(b)(1)(I))	DAE	W_	_ NI N/A
	b) Approx. location(s) of the equipment (e.g., identify unit on facility plot plan)? (265.1064(b)(1)(ii))	DAE		NI N/A

Not observed

		YES NO	NI N/A
c) Type of equipment (eg: pump or pipeline valve)? (265.1064(b)(1)(iii))	DAE	X_	NI N/A
d) Percent-by-weight total organics in the hazardous waste stream at the equipment? (265.1064(b)(1)(iv))	DAE	X_	NI N/A
e) State of the hazardous waste at the equipment (eg: liquid or gas/vapor)? (265.1064(b)(1)(v))	DAE	W_	NI N/A
f) Method of compliance w/ the standard (monthly leak detection/repair or equipped w/ dual mechanical seals?	DAE	ЦX	NI N/A
g) Implementation schedule, if facility can't install a closed-vent system & control device in time?(265.1064(b)(2))	DAE	<u>ப</u>	NI (N/A)
<ul> <li>A performance test plan if the owner/operator chose to use test data to demonstrate the organic removal efficiency total organic compound concentration by the control device? (265.1064(b)(3))</li> </ul>	OF DAE	Ш_	NI WA
I) Include documentation of compliance with the closed-vent and control device standards? (265.1064(b)(4))	DAE	ш_	NI NA
j) If a leak is detected?	- 40	3	
<ol> <li>A weatherproof &amp; readily visible identification attached to the leaking equipment and marked with: (265.106)</li> </ol>	4(c)(1))	)	
a) The equipment i.d. number?	DAE	<u>u                                    </u>	NI WA
b) Date evidence of a potential leak was found?	DAE	LJ	NI N/A
c) Date leak was detected?	DAE	LJ	NI N/A
Note: The identification on equipment, except a valve, may be removed after repair. (265.1064(c)(2))  Note: The identification on a valve may be removed after being monitored for two successive months without leaks. (265.	1064(c)	)(3))	
ii) In an inspection log the following information? (265.1064(d))		X	
a) Instrument, operator and equipment id number? (265.1064(d)(1))	DAE	M	NI N/A
b) Date evidence of a potential leak was found? (265.1064(d)(2))	DAE	Man	NI WA
c) Date leak was detected? (265.1064(d)(3))	DAE	<u> </u>	NI NA
d) Date of each attempt to repair the leak? (265.1064(d)(3))	DAE	ப	NI NA
e) Repair methods applied in each attempt to repair the leak? (265.1064(d)(4))	DAE	<u> </u>	NI NA
f) "Above 10,000" instrument readings? (265.1064(d)(5))	DAE	Ц	NI WA
g) "Repair delayed" and the reason? (265.1064(d)(6))	DAE	<u> </u>	NI NA
h) Documentation supporting delay in valve repair? (265.1064(d)(7))	DAE	П	NI NA
I) Signature of owner/operator whose decision it was not to repair until shutdown? (265.1064(d)(8))	DAE	Ц	NI NA
j) If the repair is not done in 15 days the expected date of a successful repair? (265.1064(d)(9))	DAE	П	NI NA
k) The date of successful repair of the leak? (265.1064(d)(10)	DAE	<u> IJ —</u>	NI NA
iii) Up-to-date design documentation, monitoring, operating, inspection information for closed-vent & control devices? (265.1064(e))	DAE	Ц	NI NA
<ul> <li>iv) Control device (other than thermal or catalytic vapor incinerator/flare/boiler/process heater/condenser/carbon adsorption system) have monitoring/inspection information indicating proper operation/maintenance of control device? (265.1064(f))</li> </ul>	DAE	<u> </u>	NI WA
v) The following information regarding the equipment recorded in a log: (265.1064(g))	100	11	
a) List of identification numbers for the equipment subject to the requirements and equipment designated for no detectable emissions? (265.164(g)(1)&(2)(I))	DAE	X:	NI N/A
b) The designation of the equipment signed by the owner/operator? (265.1064(g)(2)(ii))	DAE	<u>u`_</u>	NI N/A
c) List of identification numbers for pressure relief devices? (265.1064(g)(3))	DAE	X_	NI N/A
d) For each compliance test:	rved		
1) Dates of each test? (265.1064(g)(4)(I))	DAE	<u>LJ_</u> (	NI) N/A
2) Background level measured during each test? (265.1064(g)(4)(ii))	DAE	[]	NI N/A

S W. H	200	_	
		YES NO	NI N/A
3) The maximum instrument reading measured at the equipment during each test? (265.1064(g)(4)(iii))	DAE		NI N/A
e) List of all identification numbers for equipment in vacuum service? (265.1064(g)(5))	DAE	Ц_	NI NVA
vi) A log with a list of identification numbers for the valves that are designated unsafe or difficult to monitor, an explanation stating why they are unsafe or difficult and the plan for monitoring? (265.1064(h)(1-2))	DAE	О	NI NA
vii) For valves in gas/vapor or light liquid service with alternative standards the operating record will record: (265.	1064(I)	))	
a) A schedule of monitoring? (265.1064(I)(1))	DAE	M_	NI N/A
b) The percent of valves found leaking during each monitoring period? (265.1064(I)(2))	DAÈ	N_	NI N/A
viii) Is the following information shall be recorded in a log and kept in the operating record: (265.1064(j))			
a) Criteria for failure of seal system indicated by sensor used w/ light liquid service pumps? (265.1064(j)(1))	DAE	<u>Ll</u>	NI N/A
b) Criteria for failure of seal system indicated by sensor used w/ compressors? (265.1064(j)(1))	DAE	<u>Ll</u>	NI N/A
c) Any changes to these criteria and the reason for change? (265.1064(j)(2))	DAE	Ц_	NI NIA
ix) The following information kept in a log and used to determine exemptions for the hazardous waste management of	unit: (2	265.1064(k)	))
a) An analysis determining the design capacity of the management unit? (265.1064(k))	DAE	Ц	NI N/A
b) A statement listing the hazardous waste influent to and effluent from each unit and analysis determining whether the waste is a heavy liquid? (265.1064(k)(2))	er DAE	<u>Ll</u>	NI N/A
c) Up-to-date analysis/supporting data used to determine if equipment is subject to standards? (265.1064(k)(3))	DAE	Ц	NI NA
d) Documentation when knowledge of the hazardous waste stream or process is used? (265.1064(k)(3))	DAE	Ц_	NI NA
e) Any new determinations if the owner/operator takes any action that could result in an increase of the organic content of the waste? (265.1064(k)(3))	DAE	Ш	NI (N/A,
43. Are records of equipment leak information in 265.1064(d) and closed-vent and control device information in 265.1064 kept 3 years? (265.1064(1))	l(e) DAE	Ц_	NI N/A
Comments:			

. 

Honey well Burdule & Jackson
7/19/16 M170725 75731
Inspection Checklist for Subpart CC: Air Emission Standards (Tanks)

Applicability: The air emission requirements apply to units subject to Subpart J \* unless any of the following apply:

tem#	40 CFR:	*Note: CESQG's and SQG's are exempt	Etay's advance 21
CC-T1	265. 1	Do any of the following general exclusions apply? If yes, please circle.	YES 1.1
2. Emer	ewater treatmen rgency spill mar rdous waste rec	agement units265.1(c)(11) 5. Totally enclosed treatment units265.1(c)(9)	
CC-T2	265.1080	Do any of the following exceptions apply? If yes, please circle.	YES
2. The u 3. The u corre 4. The u 5. The u	unit has stopped unit is used solel ctive action, Sup unit is used solel unit operates wit	adding waste and is undergoing closure pursuant to an approved closure plan.  y for onsite treatment or storage as a result of remedial activities required under perfund, or other similar state program.  -26  y to manage radioactive mixed waste.  -26  -26  h an emission control device regulated by and in accordance with Clean Air Act regula	
6. The t	265.1080(d)	h a process vent as defined in 264.1031, regulated under Subpart AA.  -26  Administrative Stay for Organic Peroxide Waste:	55.1080(b)(8) YES
which add	litionally includ	the requirements under Subpart CC are administratively stayed, except for the record kees the notification requirement as given in 265.1080(d)(3).	
CC-T4	265.1083	Do any of the following exemptions apply? If yes, please circle.	YES
		owner/operator must control air emissions from waste management units except the un entering the unit has an average VO concentration at the point of origination less than	it is exempt if:
500 p	arts per million	by weight (waste determination required by 265.1084; see CC-T5).	-265.1083(c)(1)
2. The o	organic content o	of all waste entering the unit has been reduced by one of the 8 acceptable processes.	-265.1083(c)(2
3. The u	mit is a tank use	d for certain biological treatment consistent with 265.1087(c)(2)(iv).	-265.1083(c)(3
4. The h	nazardous waste	placed in the unit meets the LDR numerical concentration limits given in 268.40 or	
has b	een treated using	ng the LDR treatment technology specific for the waste (specified in 268.42).	-265.1083(c)(4)
5. The u	ınit is a tank wit	hin an enclosure used for bulk feed to an incinerator and meets certain requirements.	-265.1083(c)(5
		<ul> <li>In the first of the second of t</li></ul>	

	The sales					Not Reeded	
Was the	VO concentra	ation properly det	ermined for each	waste which the	facility manag	es in a unit which do	es not meet Subpart Co
requirem	ents? The co	ncentration must l	e determined by	either direct me	asurement or kr	nowledge. Please see	265.1084 for specific
requirem	ents for meas	urement and know	ledge. Determin	ation is <b>not</b> need	ded for waste m	anaged in tanks whi	ch meet Subpart CC
standards	s. It may be n	ecessary to evalua	te tank managem	ent prior to requ	iring VO conce	ntration determination	on.

#### TANK MANAGEMENT

Level 1 tank controls apply only to a fixed-roof tank in which the maximum vapor pressure of organic waste is less than that listed below for each tank design capacity, contents are not heated above the temperature of vapor pressure determination, and no waste stabilization is conducted in the tank. -265.1085(b)(1)

Tanks that exceed Level 1 criteria must use Level 2 controls; tanks that do not exceed Level 1 criteria may use Level 2 controls. The five design options for Level 2 controls are given below; vented fixed-roof tanks are the most common. -265.1085(b)(2)

Tank Design Capacity	Level 1 pressure limits	Level 1	Level 2	
≥151m³ / 40,000 gal	< 5.2 kPa / 0.75 psi	Fixed-roof tanks	Fixed-roof tanks vented to control device	-265.1085(g)
$< 151 \text{ m}^3 \text{ and } \ge 75 \text{ m}^3$	< 27.6 kPa / 4.0 psi	-265.1085(c)(1) through (c)(4)	External floating roof tanks Fixed-roof with internal floating roof	- 265.1085(f) - 265.1085(e)
< 75 m <sup>3</sup> / 20,000 gal	< 76.6 kPa / 11.1 psi	-265.1085(d)	Enclosure vented to combustion device Pressure tank	- 265.1085(i) - 265.1085(h)

265.1085(c)

#### Level 1 Controls for Fixed-Roof Tanks

NA=Not Applicable NI=Not Inspected OK= In Compliance DF= Deficiency

CC-T6	265.1085(c)(1)	Vapor Pressure Determination	ок			
Is the deter	Has the owner/operator determined the maximum organic vapor pressure of the waste in the tank: -265.1085(c)(1) by direct measurement or by knowledge? -265.1084(c)(3,4)  Is the determination acceptable?  Does waste in tank exceed vapor pressure threshold for tank size? (If yes must use Level 2 Controls)					
CC-T7	265.1085(c)(2)	Tank Design Specifications	NA	NI	ОК	

The fixed roof and its closure devices shall be designed to form a continuous barrier over the entire surface area of the hazardous waste in the tank; shall be installed such that ther are no visible cracks, holes, gaps or other open spaces between roof and tank wall / closure device and roof. Inspect the fixed roof and closure devices of each tank or a representative percentage of multiple tanks; list and photograph defects at each.

Tank #	Defect(s)	Photo #	Notes
1 1 10			
			4 2 2
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Is each opening in the fixed foof (sampling port, conservation vent, level indicator, safety valve, etc.): 265.1085(c)(2)(i)(A)

equipped with a closure device such that when closed there are no visible cracks, holes, gaps or other open spaces? or; 265.1085(c)(2)(i)(B)

connected via a closed vent system to a control device? (If YES see Level 2 Controls checklist below)

VES

CC -T8 | 265.1085(j) | Waste transfer requirements | NA | NI | OK |

Transfer of hazardous waste to the tank from another tank subject to 265.1085 or suface impoundment subject to 265.1086 shall be conducted using continuous hard piping or other closed system, to prevent exposure of waste to atmosphere; except under conditions given in 265.1085(j)(2).

using continuous hard piping or other closed system, to prevent exposure of waste to atmosphere; except under conditions given in 265.1085(j)(2)

CC-T9 265.1085(c)(3) Operating requirements NA NI

Cover and closure devices shall be closed at all times except when performing routine inspections, sampling, maintenance and cleaning. Opening of a pressure/vacuum relief valve, conservation vent or similar device is allowed during normal operations to maintain tank pressure within design specifications. Opening of a safety device is allowed at any time.

Are pressure/vacuum relief valves and conservation vents designed to operate with NDE when secured in closed position? Are the opening settings of these devices consistent with the manufacturer's recommended operating ranges? What are the pressure settings of these devices and how do they compare with Level 1 vapor pressure limits?

TES NO NO NO DE

YES

According to facility

				34			
CC-T10.	265.1085(c)(4)	Inspection requirements	NA		NI	OK	
	least annually,accor	ces shall be visually inspected for defects initially, on or before Dec ding to written plan; except when unsafe, and delay conditions are e inspection plans must be incorporated into the overall facility ins	met. Bu	ried pa	rts of tan	k need not b	
CC-T11	265.1085(k)	Repair requirements	NA		NI	ОК	
Owner/oper shall be com	ator shall make first upleted as soon as po	efforts at repair of each defect detected during an inspection no lat essible but no later than 45 calendar days after detection, except as	er than 5 provided	calend	dar days a 5.1085(k)	fter detection (2).	n; repairs
CC- T12	265.1090(b)	Recordkeeping requirements	NA		NI	(OK)	
waste (if tes	ted, records include	must be maintained on-site including: unique unit ID number, dim time and date of samples, analytical method, and results), and inspencies noted regarding items CC-T6 through CC-T12:					
	6.00						
		* , ,	180				
	5						
CC- T13	265.1085(c)(2)	Level 2 Controls for Fixed-Roof Tanks Vented to Control Device	NA=No OK= I		licable ipliance		Inspected eficiency
		l: Each roof opening not equipped with a closure device shall be co or destroys organics in the vent stream, and which shall be operatin					
CC- T14	265.1085(j)	Waste transfer requirements	NA.		NI	ок	
		All requirements of CC-T8.	6				
CC- T15	265.1085(g)	Operating requirements	N		NI	OK	
All require	ements of CC-T9	and: Closed vent system and control device shall be installed	d and or	erated	l in accor	rdance with	265.1088
CC- T16	265.1085(g)(3)	Inspection requirements	N.	\	NI	OK	
		nd: perform initial leak detection testing of closed vent system on o ect closed vent system components per 265.1033(k) and 265.1034(k)					
CC- T17	265.1085(k)	Repair requirements	N/		NI	OK	
		All requirements of CC-T11.					
CC- T18	265.1090(e)	Recordkeeping requirements	1/4		NI	ОК	
years; also:	If control device is	nd: maintain records of unexpected malfunctions and semiannual unot a carbon absorber, condenser, flare, process heater, boiler or the manufacturer's documentation). Please list in detail below deficient	iermal va	por in	cinerator,	maintain rec	ords of
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# Appendix C

## Documents received during the Inspection:

- Muskegon Site Overview: Process Flow
- Site Map
- Certificate of Compliance and Calibration for TVA-1000
- TVA-1000B Analyzer Daily Calibration Form
- Master RCRA Subpart BB Equipment Inventory
- Capacity/Asset Overview
- Sign-In Sheet for CEI Close-Out Meeting

### **Inspection Date:**

July 19-20, 2016

### Facility Name and ID Number:

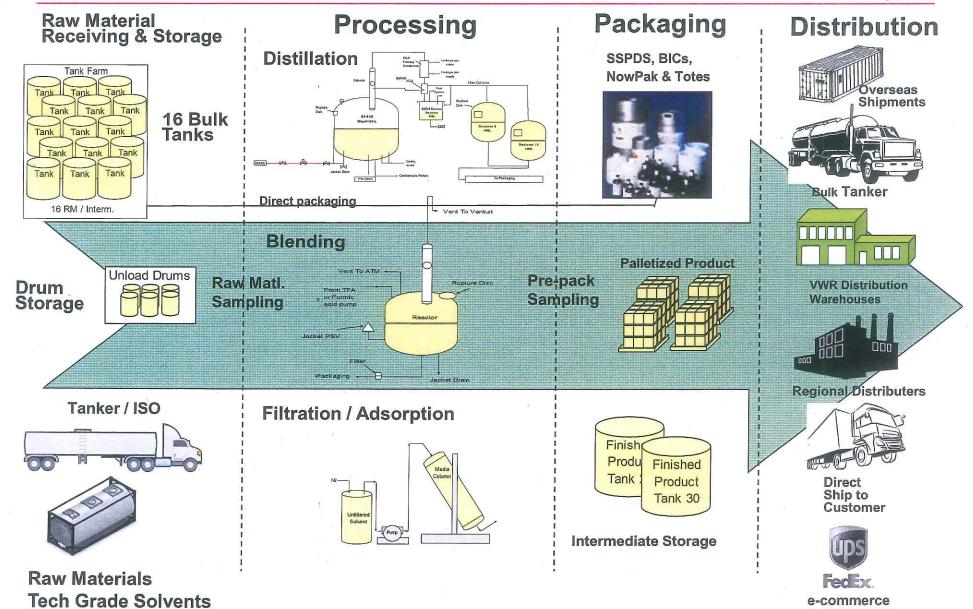
Honeywell Burdick & Jackson EPA ID: MID072575731

### Inspector:

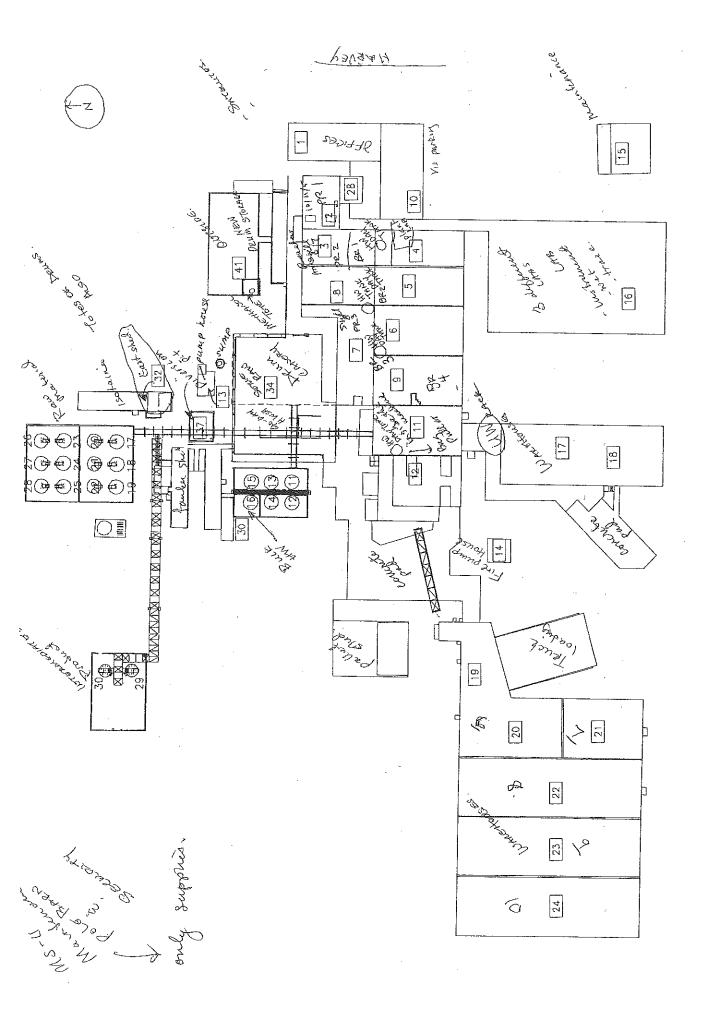
Brenda Whitney Compliance Section 2 RCRA Branch Land and Chemicals Division •

### **Muskegon Site Overview: Process Flow**

### Honeywell



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### Certificate of Compliance and Calibration

	Certificate Number	12/18/2015 - 2E+	
Order#	04071278	Make/Model	TVA-1000
Customer#	0315430	Asset #	0013546
Customer Name	HONEYWELL INTERNA	Serial Number	8810682

Standard	Lot Number	Cal Set Point	Final Span
PPM	045215	500	500
PPM	122-124511416-1	100	100
	PPM	PPM 045215	PPM 045215 500

Notes

Location

Detroit, MI

Asset Released In Tolerance 🗸

Technician

**C.HANDLON** 

V

Date

12/18/2015

Time

15:47

SOP#

Quality Control:

Date: 12/22/15

All Tests Passed

Please Note: All tests performed with NIST Traceable Master Gas at ambient room temperature, humidity, and pressure at the location listed above. Time in transit or any change in temperature, pressure, humidity, or elevation may result in changes to the calibration values listed. Performance of a bump test is recommended prior to each use; refer to owners manual for bump testing and calibration procedures. Use of this test sheet constitutes proof that the testing environment was within manufacturers' limitation and the instrument conforms to manufacturers' specification. For a copy of the calibration standard certificate of analysis or MSDS, contact us at 800-332-0435.

### TVA-1000B ANALYZER DAILY CALIBRATION FORM

Date :								
Time:								
Calibrated at:  X Honeywell, Burdick & Jackson office Other								
Analyzer Model : TVA-1000  Analyzer Serial Number : 8810682  Last Performance Test : 12/18/2015  Next Performance Test :								
Monitoring Event(s):  x RCRA Subpart BB monthly or quarterly Confirmation of leak repair Honeywell Voluntary								
Check Box if Investigated and Acceptable :  Battery Adequately Charged Sufficient Hydrogen Supply Probe Filter Condition Good Zero Gas Check Good Sample System Condition Good Flame Arrestor Present Qualitative Leak Check Passed	x x x x x x x							
Calibration Gas Mixture : 100 ppm Methane in Air Cylinder Number: ####								
Calibration Gas Calibration Initial Measured Concentration (ppm) Gas Expiration Date Concentration (pm) Concentration (pm) Final Measured Calibration (ppm) Drift¹(%)	ion							
100 11/14/2016 15,151 14,152 6.50								

Calibration Drift = [(Initial Measured Concentration) - (Final Measured Concentration)] 100

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ID NUMBER	EQUIPMENT LOCATION	EQUIPMENT TYPE	%TOTAL ORGANICS	WASTE STATE	DATE OF COMPLIANCE TEST	METHOD OF COMPLIANCE	BACKGROUND LEVEL (ppm)	MAXIMUM READING (ppm)	COMMENTS
T16 - C14	(Top of Tank)Tank Pipe 1140	Flanged Connection	95%	Liquid		LDAR/ Method 21	1,3	1.33	
T16 - C15	(Top of Tank)Waste Inlet	Flanged Connection	95%	Liquid	n/a	LDAR/ Method 21	n/a	п/а	removed 9-14
T16 - C17	Tank Waste Inlet 1140	Flanged Connection	95%	Liquid	n/a	LDAR/ Method 21	n/a	n/a	removed 9-14
T16 - C12	Tank Recirc. Pipe 1143	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.4	
T16 - C13	Tank Recirc. Pipe 1143	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.32	
T16 - C16	Tank Pipe 1140	Flanged Connection	95%	Liquid		LDAR/ Method 21		1,41	
T16 - C24	Inlet Pîpe Run 1140	Flanged Connection	95%	Liquid	n/a	LDAR/ Method 21	n/a	n/a	removed 9-14
T16 - C22	Inlet Pipe Run 1140	Flanged Connection	95%	Lìquid	n/a	LDAR/ Method 21	n/a	n/a	removed 9-14
T16 - C8	(Top of Tank)Sensor 2	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.5	
T16 - C19	Tank Pump Pipe	Flanged Connection	95%	Lìquid		LDAR/ Method 21		1.35	
T16-C10	Rupture Disc	Flanged Connection	195%	Liquid		LDAR/ Method 22		1,35	
T16 - C4	Tank Flame Arrestor	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.36	·
T16 - C6	Tank Flame Arrestor	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.5	

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### Master RCRA Subpart BB Equipment Inventory anneywell - Burdick Jackson, Muskegon, MI (Hazardous Waste Management Un. 7-Day Hazardous Waste AST)

ID NUMBER	EQUIPMENT LOCATION	EQUIPMENT TYPE	% TOTAL ORGANICS	WASTE STATE	DATE OF COMPLIANCE TEST	METHOD OF COMPLIANCE	BACKGROUND LEVEL (ppm)	MAXIMUM READING (ppm)	COMMENTS
T16 - V13	Canopy Drum Pump Drain Valve	Ball Valve	95%	Liguid		LDAR/ Method 21	0.88	0.87	
T16-C11	Canopy Strainer Pot	Flanged Connection	95%	Liquid	n/a	LDAR/ Method 21	n/a	0.89	removed 9-14
T16 - V1	Tank 1146	Ball Valve	95%	Liquid		LDAR/ Method 21		0.89	
T16 - V2	Tank	Ball Valve	95%	Liquid		LDAR/ Method 21		1.1	
T16 - V11	Tank Low Point Drain	Ball Valve	95%	Liquid		LDAR/ Method 21		1.03	- All Pints
T16 - V4	Pipe Run 1143	Ball Valve	95%	Liquid		LDAR/ Method 21		1.02	
T16 - V5	Pipe Run 1143	Bali Valve	95%	Liquid		LDAR/ Method 21		1.01	
T16 - V6	Pipe Run 1143	Ball Valve	95%	Liquid		LDAR/ Method 21		0.98	
T16 - V7	Pipe Run 1143	Ball Valve	95%	Liquid		LDAR/ Method 21		0.98	
T16 - V9	Pipe Run 1141	Ball Valve	95%	Liquid	n/a	LDAR/ Method 21	n/a	n/a	removed 9-14
T16 - V21	Pipe Run 1141	Solenoid valve	95%	Liquid		LDAR/ Method 21		1.1	
T16 - V10	Tank Pipe 1141	Ball Valve	95%	Liquid		LDAR/ Method 21		1.09	
T16-V15	Canopy Strainer Pot Pressure Guage	Ball Valve	95%	Liquid	n/a	LDAR/ Method 21	n/a	n/a	removed 9-14

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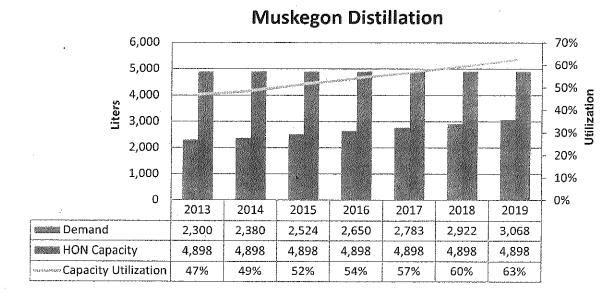
ID NUMBER	EQUIPMENT LOCATION	EQUIPMENT TYPE	% TOTAL ORGANICS	WASTE STATE	DATE OF COMPLIANCE TEST	METHOD OF COMPLIANCE	BACKGROUND LEVEL (ppm)	MAXIMUM READING (ppm)	COMMENTS
BR3 - V31	Nitrogen Vent	Bali Valve	95%	Liquid		LDAR/ Method 21	1.21	1.23	
BR3- C29	Drain Pan bottom flange ELF 1	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.33	
BR3- V36	Drain Pan valve ELF 1	Bali Valve	95%	Liquid		LDAR/ Method 21		1.21	
BR3-C28	Waste Tank Inlet ELF 1	Flanged Connection	95%	Liquid		LDAR/ Method 21	-	1.21	
BR3-V32	Waste Tank Sight Glass (Bottom) ELF1	Ball Valve	95%	Liquid		LDAR/ Method 21		1.25	
BR3-V33	Waste Tank Sight Glass (Top) ELF1	Ball Valve	95%	Liquid		LDAR/ Method 21		1.21	
BR3-C30	Waste Tank Discharge End Cap ( MT Port 2) ELF1	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.3	
BR3-V34	Waste Tank Discharge Valve E <b>LF2</b>	Ball Valve	95%	Liquid		LDAR/ Method 21		1.27	
BR3-C31	Waste Tank Sant Connection ELF1	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.3	
BR3-C32	Waste Tank Vent ELF 1	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.23	
BR3-C33	Waste Tank Rup Disk ELF 1	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.4	
BR3-C34	Waste Tank MT Port 1 ELF 1	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.3	
BR3-C35	Drain Pan ELF 2	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.3	

ID NUMBER	EQUIPMENT LOCATION	EQUIPMENT TYPE	% TOTAL ORGANICS	WASTE STATE	DATE OF COMPLIANCE TEST	METHOD OF COMPLIANCE	BACKGROUND LEVEL (ppm)	MAXIMUM READING (ppm)	COMMENTS
BR1 - C46	Waste Tank Rup Disk BR 1	Flanged Connection	95%	Liquid		LDAR/ Method 21		0.95	
BR1 - V40	Vent Valve	Ball Valve	95%	Liquid		LDAR/ Method 21		0.98	
BR2 - C48	Waste Tank Vent BR 2	Flanged Connection	95%	Liquid		LDAR/ Method 21	1.03	1.09	
BR2-V40	Waste Tank Sight Glass (Top) BR 2	Ball Valve	95%	Liquid		LDAR/ Method 21		1.09	
BR2-V41	Waste Tank Sight Glass (Bottom) BR 2	Ball Valve	95%	Liquid		LDAR/ Method 21		1.11	
BR2-V42	Waste Tank Discharge Valve BR 2	Ball Valve	95%	Liquid		LDAR/ Method 21		1.08	
BR2-C54	Waste Tank Drain End Cap BR 2	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.12	
BR2 -C55	Waste Tank Blank 2" Sanitary Fitting	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.08	
BR2 -C56	Waste Tank Level Sensor Sanitary Fitting	Flanged Connection	95%	Liquid	,	LDAR/ Method 21		1.08	
BR2 -C52	Waste Tank Hood Drain Sanitary Fitting	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.1	
BR2-C53		Flanged Connection	95%	Liquid	-	LDAR/ Method 21		1.1	
BR2-V43	Waste Tank Hood Drain Valve	Ball Valve	95%	Liquid		LDAR/ Method 21		1,2	
	Waste Tank N2 valve	Ball Valve	95%	Liquid		LDAR/ Method 21	·	1.2	

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## Master RCRA Subpart BB Equipment Inventory neywell - Burdick Jackson, Muskegon, MI (Hazardous Waste Management Un. J-Day Hazardous Waste AST)

ID NUMBER	EQUIPMENT LOCATION	EQUIPMENT TYPE	% TOTAL ORGANICS	WASTE STATE	DATE OF COMPLIANCE TEST	METHOD OF COMPLIANCE	BACKGROUND LEVEL (ppm)	MAXIMUM READING (ppm)	COMMENTS
BR3-C51	Waste Drain Line Connection (0.75-P- 1430-TS)	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.9	
BR3-C52	Waste Drain Line Connection (0.75-P- 1430-TS)	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.86	
BR3-C53	Waste Drain Line Connection (0.75-P- 1430-TS)	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.77	
BR3-C54	Waste Drain Line Connection (0.75-P- 1430-TS)	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.72	·
BR3-C55	Waste Drain Line Connection (0.75-P- 1430-TS)	Flanged Connection	95%	Liquid		LDAR/ Method 21		1.73	
	Waste Drain Line Valve		95%	Liquid					
	Waste Drain Line Valve		95%	Liquid					



### **Plant Operations**

- 3 shift / 5 day /24hrs operation
- Production
- Packaging
- Quality Assurance
- Maintenance
- Administrative
- Product Mktg / R&D

### <u>Production – HC 15</u>

### Distillation

- 10 stills
- 22 receivers

#### Reactions

- 7 reactors

### Blends

- 2 blending units

### Filtration

- 4 columns

### **Bulk Storage**

- 17 raw material tanks
- 2 intermediate

### Packaging - HC 19

- BR1 Manual packaging
- BR2 Manual packaging
- BR3 Semi automated
- BR4 Manual packaging Clean room
- BR5 Manual packaging High Purity Water

### Warehouse / Shipping – HC 11

- 1 packaging warehouse
- 5 Finished product warehouses
- 3 Shipping docks
- 2 Receiving docks

### QA Lab - HC 5

- GC/LC & GC/LC MS
- ICP MS
- UC/FTIR
- Particle Size
- Wet Chemistry



Title Yargaret fibrighangeran HSE Leader
Doug Dieser Berg Manager PLANT MANEAGER JEFF Halvorson Maintenance : Espineering Leader JoHN HAMANIA MSE SPECIALIS ( BOB BITENTON PMT ENVIRONMENTAL COE LEADER PRODUCTION ARGA LEADER MARV MORSE OPERATIONS LEADER LARRY HYSELL David Mills QA/QL Leader Alexandrea Thomson Human Resource Leader Wade O'Boyle MI-NFQ Brenda Whitney USEPA

P1000